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EU summit An agenda for Dublin

Hong Kong Race for the top job



Black gold-The hunt for oil reserves Page 18



Hot air Solar flight takes off

Environment, Page 9

EU takes

anti-Cuba

legislation

trade body

The European Union is to seek

a World Trade Organisation

ruling that a US anti-Cuba law

violates global trade rules. The decision, taken yester

day by EU foreign ministers

meeting in Luxembonrg.

seems certain to execerbate

the dispute between the EU

to world

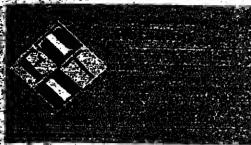
By Lionel Barber in

Luxembourg and Guy de

Jonquières in London

Business Newspaper http://www.FT.com

WEDNESDAY OCTOBER 2 1996



100,000 German workers protest over sick pay cuts

More than 100,000 engineering workers demonstrated throughout Germany as several companies went ahead with a controversial cut in the minimum statutory sick pay benefit from 100 per cent of wages to 80 per cent. About 16,000 workers walked out at the Stutteart factory of Daimler-Benz, Germany's largest industrial group which was the first large company to announce plans to make the cuts, Page 14

London stocks at record high: UK stocks set new highs as the first trading session of the fourth quarter attracted substantial institutional cash. The FTSE 100 index jumped 38.5 to a record 3,992.2, and was poised to top the 4,000 mark this morning. London stocks, Page 30

BMW in Chrysler joint venture: BMW said it had agreed with US carmaker Chrysler to set up a joint venture to build smaller four-cylinder motors in south America. Page 8

Gazorom accounts frozen: Russia's natural gas monopoly Gazprom accused the government of freezing its bank accounts as punishment for unpaid taxes, Russian news agencies said. Page 14

Aviation talks setback: Plans by EU transport commissioner Neil Kinnock to negotiate with Washington on aviation rights suffered a setback after the US said such talks were unlikely to achieve results. Page 2

Bond issues break record: International bonds issues have raised \$509bn in the first nine months of the year, compared with \$464.6bn in 1995, the previous record year. Page 15; Bonds,

General Motors, the world's biggest vehicle maker, will increase investment in central and eastern Europe to reinforce its position as one of the region's leading manufacturers. Page 5

Suu Kyi supportera detained: Burma military regime said it had detained more than 500 supporters of Aung San Sun Kyi's National League for Democracy. Page 6

Amnesty criticises Turkey: Amnesty International issued a report condemning extrajudicial killings, torture and disappearances in Turkey as it launched a worldwide campaign to highlight human rights abuses in the country. Pressure to clean up launderers, Page 8

Wells Fargo & Co, the California retail bank, was the most profitable bank in the world last year according to a survey by Ibca, the European bank rating agency. Page 18

US to ease encryption curbs: The White House plans to ease export restrictions on powerful encryption software, used to scramble elec tronic messages to prevent eavesdropping by computer hackers. Page 7

S Korea reviews North ald: South Korean President Kim Young-sam said his government would review policies towards the North, including economic assistance, following the recent infiltration by armed North Korean agents. WTO call for reforms, Page 5

Danes promise biker club crackdown: The Danish government promised to crack down on biker clubs whose rivalry has led to six deaths in the past two years. Page 3

Talks on shipbuilding subsidies: The US and other leading shiphuflding powers will hold emergency talks this month on an international agreement to curb subsidies. Page 5

World Bank targets corruption: World Bank president James Wolfensohn called on national leaders to stamp out "the cancer of corruption", prompting unesse among some African and Asian countries about greater western interference in their internal politics. Page 4

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M STOCK MARKET INDICES | M GOLD

New York: Numehithme Dow Junes int Ar 5,862.04 (-20.13) MASDAQ Composite 1,215.75 (-11.17) Environ for East CACAO 1,722.21 (-9.60) DAX 2,663.73 (-3.88) PTSE 100 3,902.2 (-38.5) Middei 21,462.87 (-93.43)	New York: Comex (Dec) .\$381.0 (380.5) London: close .\$378.7 (378.65)
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Eurotunnel close to debt deal

By Geoff Dyer in London and

alised by this morning.

Eurotunnel official said.

the negotiations, said last

night: "We are optimistic."

again," the president said.

House spokesman, deliberately

set out to play down expecta-

tions: "It is not possible at this

moment to be encouraged, but

It is necessary to be deter-

By Robert Graham in Rome

Italy reacted angrily yesterday

after Mr Jacques Chirac, the

French president, questioned

Italy's readiness to join a sin-

Mr Romano Prodi, Italy's

prime minister, summoned the

French ambassador to protest

at the suggestion that Italy

might not be among the first

wave of countries joining the

The row threatened to derail

tomorrow's Italo-French sum-

mit in Naples - a meeting

intended to seal improved rela-

tions between the two coun-

tries. These soured last year

after Italy's United Nations

vote against France's resump-

the summit was to go ahead

after Mr Chirac issued a state-

ment praising the Italian gov-

ernment's efforts to improve

On Monday Mr Chirac told

tion of nuclear testing.

gle European currency.

euro currency.

and David Buchan

of Jordan

mined."

Banks are optimistic over \$13.7bn refinancing package

Eurotunnel was on the verge last night of reaching a refi-The prospect of a resolution nancing deal with its leading follows more than a year of banks which would save the talks between the company Channel tunnel operator from its banks after the the threat of bankruptcy. Anglo-French gronp suspended Negotiators said the few interest payments on its debts details left to be decided were

last September. being thrashed out at a secret The risk that the group might end up in administralocation in Paris last night. tion was increased on Monday and a deal to reduce the group's crippling £8.8bn when it missed a deadline for (\$13.72bn) in debts could be finreaching an agreement with the banks.

"We are making no com-ment, with a satisfied tone," a And bankers stressed last night that no matter how close the two sides were, the poten-National Westminster, one tial deal could still unravel. of the six banks involved in

The two parties have agreed since May on the broad outline of a deal which is expected to

include an initial deht-forequity swap leaving the 225 banks with up to 49 per cent of the shares.

involve the issue of convertible bonds which will be redeemable by the company if it achieves certain revenue targets, but which could leave the banks owning a substantial mejority stake of around 75

per cent at a later stage.
Analysts estimate the group needs to reduce its debt burden by between £3hn and £5bn. However, until now they have been unable to agree on the share price in the initial swap and on the conversion price of

understood to have been pusbing for a conversion price well over 265p, the level at which The proposals will also shares were issued in the 1994 rights issue. But this has been strongly opposed by some

bankers.

The company has been negotiating with six banks in the so-called "steering group" ~ National Westminster, HSBC, Credit Lyonnais, Banque Nationale de Paris, the European Investment Bank and the European Coal and Steel Com-

Any deal reached with the steering group will have to be approved by all the group's 225

the honds. The company is banks and its shareholders. The French commercial court which has been helping coordi nate talks, said it would publish a statement today. If a deal is not reached, the court can either impose a compromise on the two sides or put the company into administra-

On Monday, Eurotunnel asked for its shares to be suspended at 115p, due to fears that leaks about the negotiations would create e false market. The company steadily increased passenger numbers over the summer, and claims to have a 45 per cent share on

the Dover-Calais route.

and Wasbington over the extra-territorial application of US trade legislation. The US has said it would view such a move by the EU as

The case also poses a seositive test of the WTO's legal and political authority. Sir Leon Brittan, the EU trade commissioner, told the

foreign ministers that Europe needed to act because its political credibility was at stake. "What bas bappened today

bas shown the whole world that the EU has the capacity to defend itself and the political will to do so. Respect grows when people think that you can stand up for your interests," Sir Leon said. The decision follows a

period of mixed signals about EU intentions, Mr Jacques Santer, the European Commisslon president, recently snggested the EU would defer any decision on retaliation against the laws until after the November 5 US presidential election.

The EU plans to ask the WTO on October 16 to set up a disputes panel to bear its complaint against the so-called -Burton anthorises private US court actions against non-US companies that "traffick" in coofiscated Cuban assets.

If, as expected, the US objects to the EU demand, the procedure will be delayed untit November 22, when a second bearing will be beld. The US cannot block the formation of a panet, but the panel's decision may be reviewed hy the WTO appeals tribunal. If the WTO decides the act violates world trade rules, the

Continued on Page 14



Palestinian leader Yassir Arafat yesterday discusses the Middle East peace process with US President Bill Clinton

Dole insisted: "Our friend Israel must not be asked to make concessions as a means of restoring order."

Italy angered by Chirac's

remarks on single currency

tile town of Arras that some

countries would have to "clean

up their economic and finan-

cial situation" to join the sin-

gle currency by the 1999 dead-

line. "It may take a tittle

longer for those who are fur-

ther hehind, like Italy," he

Mr Chirac said that despite

its recent rise, the lira was still

at a level unsuitable for a sin-

gle European market. He com-

plained that French textiles

had been hit "more by a com-

petitively devalued lira, and

possibly the pound and peseta,

than hy south-east Asia

tougher-than-expected hudget

last Friday, the Prodi govern-

ment is especially sensitive to

any suggestions it might be

The Bank of Italy bas been

intervening to prevent the lira

from appreciating above L1,000

exporters bave made clear

re-enter the European

they would prefer the lira to

Having just unveiled a

imports"

monetary union.

However, it appeared that excluded from taking part in

workers in the depressed tex- Exchange Rate Mechanism on

L1.100.

planned

Mr Netanyahu indicated he Prior to the White House was willing to engage in "con-tinuous" negotiations with the session, Mr Arafat conferred Palestinians after the Washwith King Hussein and Mr ington meeting, but he Amr Moussa, the Egyptian forappeared to rule out major concessions. "We don't rule eign minister, representing President Hosni Mubarak.

out other people making ges-tures to us," he added. There were unconfirmed reports that Mr Arafat presented a list of as many as five He also sought to exploit potential US political divisions demands, including the closure by arranging to meet Mr Bob of the exit to the archaeologi-Dole, the Republican presidencal tunnel in Jerusalem, the tial candidate. On Monday, Mr opening of which precipitated

last week's violent clashes. Mr Dole had previously been reluctant to criticise Mr Clinton while be was engaged in personal diplomacy but his statement appeared to reflect the advice of his foreign pobcy advisers that the current Middle East crisis offered an opportunity to criticise Mr Clinton's conduct of external affairs as well as appeal to the

Jewish American vote. But it prompted a sharp response from both the White House and Democratic party leaders in Congress. Mr

a band between L1,000 to

provoked in Rome by Mr José

Maria Aznar, the Spanish

prime minister, who suggested

in the Financial Times on

Monday that he had spurned

overtures from Italy to form a

Mediterranean alliance to

achieve more flexible terms for

monetary union. Mr Prodi

called Mr Aznar for an expla-

nation and denied any such

However, Mr Prodi said his

discussions with Mr Aznar had

played an important part in

helping decide that Italy had

to make a bigger effort and cut

its budget deficit to the Maas-

tricht target of 3 per cent of

gross domestic product by next

year - not in 1998 as originally

cial Times, insists: "The bud-

get is remarkably tough...If

we do all this, it will be impos-

Chord of disunity, Page 12

Prodi interview, Page 13

sible to leave Italy out."

Mr Prodi, in today's Finan-

overture had been made.

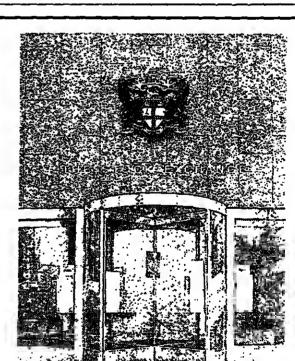
The row follows the dismay

McCurry called Mr Dole's start of the summit, criticised intervention "rather unneces-sary" while Senator Tom Daschle, the minority leader, thought Mr Dole "was close to crossing the line in a very sen-

sitive area". The European Union, in e statement coinciding with the and to resume talks.

Israel's use of tanks and belicopter gunships to crusb last week's protests. EU foreign ministers, meet-

ing in Luxembourg, called on Israet and the Palestinians to exercise the utmost restraint



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LONDON - LEEDS - PARIS - FRANKFURT - STOCKHOLM - MADRID - NEW YORK - LOS ANGELES - TOKYO - HONG KONS

EUROPEAN NEWS DIGEST

US-EU aviation talks setback

Aerospace Correspondent

Plans by Mr Neil Kinnock, the EU transport commissioner, to negotiate with Washington on aviation rights suffared a setback yesterday when the US said such talks were unlikely to achieve results.

Mr Charles Hunnicutt, US assistant secretary for aviation, said in a speech in Prague that the EU's decision to pursue a two-stage approach to negotiations meant little progress could be made in concluding a lib-

area'

in Geneva

sought

By Frances Williams

Seven of Europe's most

prominent anti-corruption

judges yesterday appealed for creation of a "European

judicial area" that would let

prosecutors and investiga-

ting magistrates freely share

In their "Geneva appeal"

the judges say European pol-

lticians, many themselves

caught up in the weh of

organised crime and corrup-

tion, have shown themselves

incapable of dealing with a problem threatening democ-

organised crime do not stop

at national borders," Mr

Bernard Bertossa, Geneva's

public prosecutor, said yes-terday. "There needs to be

free circulation of investiga-

tion information, not just of

The Geneva appeal calls

for all indicial border restric-

tions to be scrapped, so that

requests for help in investi-

gations are not held up by

red tape, government inter-

vention or lengthy appeals

Milan's deputy prosecutor,

who worked alongside Mr

Antonio di Pietro on Italy's "clean hands" corruption

investigation, said vesterday

that, of the half a million

requests for information

issued in that inquiry, only a

third had received any

In some instances it had

taken more than four years

to find out the answers to

simple questions such as the

name on a bank account or

whether funds had been

The judges also want a new European convention

that would oblige signatories

to lift banking secrecy when

another country asks for

judicial assistance, allow

direct contact hatween

judges, provide for the

immediate transmission of

information and make tax

fraud a crime in countries such as Switzerland where it

The appeal further urges

governments to agree to pen-

alise their nationals who are

guilty of trying to corrupt

foreign officials, a cause already being pushed by the

US which is the only country

Switzerland, Italy, Belgium, France and Spain, launched

Tha seven judges, from

to have such a law.

newspaper Liberation.*

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Mr Gherardo Colombo,

criminals and capital.

in the courts.

response.

The barmful effects of

racy and the rule of law.

information across borders.

between Washington and Brussels.

Mr Kinnock won a mandate from member states in as traffic rights, or the desti-June to begin aviation talks with the US. The UK was the only dissenting voice, saying air rights should continue to be negotiated on a bilateral

The EU said it would first negotiate with the US on "soft rights", such as state aids, code-sharing - under which airlines sell seats on each other's flights - and computer reservation

the EU would ask member states for a further mandate to negotiate on issues such nations to which airlines are permitted to fly. The adoption of the two-stage approach was seen as necessary to persuade dissenters such as France and Portugal to support EU-wide negotia-

tions with the US. However, Mr Hunnicutt those discussions can yield

skies' accord with the EU. We cannot make real progress with the EU, or any other multinational organisation, unless it is authorised to negotiate all of those elements that create open market environments."

"While we are willing to share ideas of methods for implementing provisions of an agreed market-oriented aviation relationship, we must be able to negotiate all said: "We are sceptical that these elements at the same time - not in dribs and concrete results." He said drabs, not in stages, because Washington was only inter-ested in concluding an 'open skies are inter-related."

meet their EU counterparts later this month. But he added: "Unless the Commission can now come with a clear mandate to negotiate the full range of factors that go into true open skies, we expect that this meeting will primarily involve a listening session on our part."

He said the US would instead continue to reach bilateral open skies agreements with European governments. The US has so far concluded 12 European agreements, nine of them with EU member states.

Bank Kredytowy (PBK)

early next year, while the

Bank Handlowy and the

Bank Zachodni in Wroclay



Neil Kinnock: US says talks

Germany ends role missile

in Bonn and David Buchan in Paris

Germany has withdrawn from a project with French companies to develop a new missile, partly because the British government rejected a German missile earlier this summer in favour of an Anglo-French competitor being hullt by British Aero-

space end Matra.

or tre Tunway-bustin was entirely up to Bonn.

in French

By Michael Lindemann

The Apache technology dates from the 80s while our missile is very much based on 90s technology," said a defence industry executive. Germany now needed a missile to bit smaller objects such as bunkers rather than airfields which the Apache had originally been designed to knock out.

Matra, prime contractor version of its Apache mis sile, minimised the impact of Germany's pull-out from the missile programme which it sald was developed and funded by France alone. The French company said the only contract that Dasa had with Matra for this version of the Apache was to adapt it for German Tornados and that whether or not it was fitted to the German aircraft

Germany will now spend about DM300m (\$197m) - the sum earmarked for Apache development - on the KEPD 850 instead. Talks are under way with other countries, including Sweden, which has been working with the Germans on the KEPD 350.

with him at present unlikely to achieve results

However, German executives sought to play down suggestions that Germany had been annoyed by the British decision to prefer the Storm Shadow missile over the German KEPD 350. They said instead that Daimler-Benz Aerospace (Dasa) had decided a few weeks ago to withdraw from the Apache missile programme, being run jointly with Matra and Aérospatiale, because Germany's strategic requirements had changed and because the Apache technol-

bey was outdated.

Matra, which is part of the Lagardère group, stressed the German decision would not affect either the Storm Shadow programme or a similar cruise missile developed for the French air force. Lagardère, whose share price fell briefly on news of the German decislon, hinted that the leaking of Bonn's move might have been designed to destabilise it during its contest with Alcatel of France to buy Thomson, the state-owned French electronics group.

Germany regards co-operation with France on defence projects a matter of high political priority, making the Apache withdrawal unusual However, executives said that other projects would not be jeopardised by the Apache decision

French textile aid questioned

French government aid to its hard-pressed textile industries is to be scrutinised afresh by the European Commission because of concerns that the assistance is distorting competition. Brussels fears that the use of FFr2bn (\$400m) of aid to reduce employers' social security charges for lower-paid workers in the textile, clothing and shoe industries, in return for a commitment to maintain existing jobs and employ more young people, could affect competitors in neighbouring countries.

German textile producers have called on the Commission to veto the plan, arguing that it could drive small German producers out of business.

According to the Commission the French government has not stuck to its original plan for the aid, which was to create jobs and assist the young unemployed. It would be accompanied by a reduction in working hours and the promotion of part-time working.

Brussels insists much of the aid to the sectors is being used to pay overtime to employees working longer hours as a result of changes to working practices, agreed by unions. The French anthorities argue the payments have had little impact on competition. Emma Tucker, Brussel

Simitis pledge to Cyprus

Mr Costas Simitis, the Greek prime minister, promised yesterday to help the Cypriot government "restore its territorial integrity" by peaceful means after watching a military parade at which a dozen T-80 Russian tanks,

newly delivered to the island, were on prominent display.

"Defanding Cyprus is like defending Greece," said Mr.

Simitis, who also stressed that the problem of the divided island should be resolved through diplomatic efforts.

Insisting that close defence co-operation between Athens and Nicosia was consistent with efforts to pursue a settlement, he said peace talks would not be productive if one side was stronger than the other.

Ul

Tha parade, marking the 36th anniversary of Cyprus's independence from Britain, also included French AMX-30 B2 tanks, sophisticated anti-aircraft batteries, field guns Andreas Hadjipapas, Nicosia and Milan rockets.

Cardinal Daly steps down

Cardinal Cahal Daly, spiritual head of Ireland's 4m Roman Catholics, stepped down as Primate of All Ireland and Archbishop of Armagh yesterday, his 79th birthday. A philosopher by training, Cardinal Daly has steered the church through a turbulent period in Northern Ireland's history and a series of sexual scandals which tarnished its reputation in the Irish Republic. He is also well known for his forthright condemnation of Irish

Republican Army violence. Previously the hishop of Down and Connor for eight years, he had effectively been spiritual head of Belfast's Catholics. He was in the frontline of Northern Ireland's political and sectarian conflict. He will be succeeded by Bishop Sean Brady, who has been assisting him since his appointment as coadjutor (archbishop-in-waiting) in

France puts brake on TGV

France is to scale back a timetable for developing its TGV high-speed train network over the next two decades because of financial constraints, Mrs Anne-Marie Idrac, transport minister, said yesterday. Outlining plans for the next 20-25 years, she said original proposals had been drawn up against budget estimates which were not

She said development would concentrate on so-called pendular train technology, in which high-speed trains can operate on existing train lines. AFP, Paris

Military doubt on reform

French military chiefs have told the government that the wholesale overhaul of the country's armed forces now under way would seriously restrict their capacity for long-range action until the year 2000, according to Le Monde newspaper.

The pivotal point of the military reforms is to end conscription, which has existed for more than 200 years, and to create all-professional forces. Mr Chirac pushed through his modernisation plan precisely to increase the military's capacity for long-term actions overseas. The defence ministry was not immediate available for Reuter Paris

Amnesty castigates Turkey Amnesty International yesterday launched a worldwide

campaign to highlight what it describes as a "steady erosion of human rights in Turkey" in the 1990s. Its secretary general Pierre Sane told a news conference that, in the nama of national security, Turkish authorities had attempted to excuse, ignore or cover up torture; political murders and extrajudicial execution by the country's security forces.

"Whila the Turkish government has talked publicly of progress on human rights, the situation has in fact gone from bad to worse," Amnesty claims in a report released yesterday. It also criticises abuses by the Kurdistan Workers Party which has been waging a separatist struggle in south-east Turkey for 12 years.

Amnesty said freedom of expression was increasingly threatened in Turkey. Journalists faced "a real risk of disappearing, being shot dead or beaten to death for their professional activities". Kelly Couturier, Ankaro

ECONOMIC WATCH

German industrial output up



production expanded further in August, continuing a recovery that began in March, the economics ministry reported yesterday. Provisional figures suggested that Germany has overcome the prolonged growth pause that started in the middle of last year. Overall industrial output rose a seasonally adjusted O.S per cent in August from July and was up 0.7 per cent from a year earlier. Output in the west of the country rose by 0.3 per cent in August from July, and by 0.9 per

German industrial

cent on the year. In the east there was a 5.1 per cent rise on the month, but a 1.4 per cent fall year-on-year... The economics ministry revised the figure for July month-on-month industrial output to an increase of 1.1 per cent, from the earlier figure of 0.2 per cent. The July year-on-year figure was revised to an increase of 1.1, from

0.5. In August, pan-German manufacturing industry: output rose 1.7 per cent from July and 2.4 per cent from a ■ The Belgian-Luxembourg economic union's trade surplus fell in June to a provisional BFr23.9bn (\$761m)

from BFr45.8bn a year earlier. ■ Swiss consumer prices rose 0.1 per cent in September from August and were up 0.6 per cent year-on-year.

Spanish producer prices fell 0.2 per cent in July from June and were up 0.9 per cent year-on-year.

European Polish government reshuffle judicial may slow pace of sell-offs

By Christopher Bobinski

The pace of privatisation in Poland could slow down as a result of the government's restructuring of economic ministries and a cahinet

reshuffle which came into effect vesterday. The reshuffle leaves Mr Grzegorz Kolodko, finance minister, in overall charge of the economy hut pnts responsibility for the sale of state sector companies into the hands of the sceptical

junior coalition partner. The reorganisation, designed to make the administration more responsiva to the needs of an increasingly privatised economy, puts Mr Miroslaw Pietrewicz of the peasants party (PSL) in agreed to stay on and

sury which is to oversee state-owned companies and handle privatisation. This was part of a political compromise required to ensure survival of the socialist-led coalition government until general elections next year.

Until now the sale of state assets has been been run by the privatisation ministry, which disappears. Mr Wieslaw Kaczmarek, who has headed the ministry for the past three years, was criticised by the PSL for his zeal over privatisation while Mr Pietrewicz, who headed the now-dafunct central planning office, has never shown enthustasm for privatisation. Last night, however, Mr Kaczmarek reluctantly

The reforms create a new ministry of the economy which subsumes the former trade and industry and foreign trade ministry functions. This new ministry remains in the hands of the main coalition party, the Democratic Left Alliance (SLD), which also gets the powerful joint ministry of

the interior.

will be sold in 1997. Mr Kaczmarek celebrated his last day in office on Monday hy a flurry of privatisation approvais. They include the sale of the Tychy brewery to a joint venture led by Sonth African Breweries and sale of the Pawapublic administration and

a 65 per cent stake in the in Lodz to a group of local Warsaw-hased Powszechny investors.

The reshuffle laaves Mr

Grzegorz Kolodko, deputy premier responsible for the economy and tha finance minister, in place. His ministry retains responsibility for disposals of state-owned banks. The government is to press ahead with the sale of

fag railway engine works in Wroclaw to Adtransz, a German subsidiary of ABB, the

Swiss-Swedish power plant and engineering producer. Other last-minute disposals included the sale of Refa, an electrical equipment producer, to GEC Alsthom, and an ailing tobacco company

British stockman with his herd. There were too few people to monitor BSE in the past, says a Brussels official

Senior Brussels official complains of inspection staff shortages BSE 'badly monitored' by EU

in Brussels

The European Union's top civil servant responsible for farm policy yesterday admitted mad cow disease was badly monitored in the UK during four crucial years because of staff shortages in

The evidence was given to their appeal to coincide with the publication of a book to the European parliament slon had "wanted to hide which they have contributed inquiry into allegations that by Mr Denis Robert, a forthe European Commission mer journalist on the French was negligent in managing the threat of BSE, bovine La Justice ou le Chaos, by spongiform encephalopathy, Denis Robert (Editions Stock, and that senior civil servants sought to cover up the THE FINANCIAL TIMES
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companies is: The Financial Times Limited,
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SEI 9HL. dangers of the disease. The allegations have focused on Mr Guy Legras, the Commission's top agricultural ten by him were leaked to it. This was a "pretty laugh-

Mr Legras attacked critics of the Commission's BSE policy and denied charges that he had been involved in trying to limit discussions on the disease. The Commission had "never sought to disseminate this information" nor had it tried to keep information out of the public domain. Even if the Commisanything, nobody would have paid any attention to

it" and that scientists would have "cried foul". But Mr Legras admitted there had been insufficient monitoring of BSE between 1990 and 1994. He said this was mainly due to the fact that the Commission's inspection division had only bureaucrat after letters writ- a dozen people working for

Mr Legras blamed the Commission for the staff agriculture. Mr Ray Mac-Sharry, had repeatedly "drawn the attention of the college to the disastrous situatioo of staffing in the veterinary services" and the risks posed by tha lack of resources. But, he said, "we got much less than we asked for" partly because the Com-

mission was preoccupied with the implementation of single market legislation. Mr Legras also blamed member states for inadequate attention to BSE, pointing out that the EU strategy should have been "jointly managed" by the Commission and EU coun-

able level of staffing," he tries. "I believe in the principal of subsidiarity. But I am saying passionately that this will only work if there is a shortage pointing out that counterweight (in Brussels) the then commissioner for which is not there at the moment" Mr Legras denied he had been pre-occupied with tha

effects of BSE on the markets. "At no time did markets take priority over health," he said, but admitted he had wanted to "avoid panic which was not supported by scientifically-based and properly judged information". He added that the BSE affair differed from other crises because there were so many unanswered questions. We are trying to manage uncertainty. We are in a huge grey area of doubt," he Said

Cattle cull backlog, Page 8

Belgium budgets for monetary

By Neil Buckley in Brussels

Belgium set its sights firmly on monetary union yesterday with a 1997 budget aimed at meeting the Maastricht convergence criteria by cutting the budget deficit to 2.9 per cent of GDP and substantially reducing government debt.

Mr Jean-Luc Dehaene, prime minister, also committed his government to wideranging reforms of the legal system, following recent scandals surrounding a paedophile murder case and new arrests connected with the 1991 murder of a former Belgian deputy prime minis-

tion for monetary union. of debt reduction measures. aimed at reducing the debt by four points to 127 per cent of GDP next year. That is more than double

the 60 per cent Maastricbt

target, and still the highest

in the European Union. But

Mr Dehaene confidently pre-

dicted this would be suffi-

cient to convince Belgium's

partners that the debt was

rapid reduction in debt.

ing too heavily on one-off measures and accounting tricks, rather than structural

Mr Dehaene had made disappointing use of temporary special powers he woo from parliament to legislate on the budget by decree - clearing the way for him to take

including cuts in subsidies to public companies, and in international aid and military spending. Social security spending will fall BF123bn, including health care savings, reduced child allowance rates, and the effects of an increase, phased over 13 years, in the retirement age for women from 60 to 85 - the same as men.

bring in an extra BFr10bn.

including partial privatisations of Crédit Communal. the municipally owned bank and ASLK-CGER, the hank and insurance company.

The budget, based on a on a firmly downward trend. views of opposition MPs that conservative 1997 growth Mr Dehaene added that forecast of 2.1 per cent, structural measures, includincluded BFr80bn (\$2.55bn) ing pensions and social secuof measures aimed at cutting rity reforms, would keep the primary surplus on federal the budget deficit to 2.9 per cent - 0.1 points below the 3 and social spending above per cent target for qualifica-5.5 per cent - the highest in unpopular steps. Primary federal spending the EU. That would allow a It also included BFr367bn "reverse snowball effect" or is to be cut by BFr17bn,

"The 1997 budget is not a transition budget. It can justly be called a turning point budget," Mr Debaene told the Belgian parliament But Belgian economists criticised the budget for rely-

and BFr70bn of asset sales,

Revenues will rise by BFr23bn, including excise and petrol tax increases, and tax changes on some savings instruments. Special measures, including a clampdown on tax fraud, will

Non-fiscal revenues will

increase BFr10bn, mainly through a plan to sell off publicly owned properties. Debt reduction measures include use of a BFr222bn foreign exchange surplus to cut foreign currency dabt,

OCTOBER 2

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NEWS: EUROPE

Kremlin takes the flak over funding

By Christia Freeland in Moscow

Prima ballerinas, generals and coal miners all lodged separate attacks on the Kremlin yesterday for starving vital Russian military, economic and cultural organisations of state funds.

The high-profile protests, which ranged from the threatened closure of Russia's most loved museum to s city-wide strike in the northern outpost of Vorkuta, signalled the beginning of a new battle hetwaen cash-starved state institutions and a cabinet of ministers determined to hold down government spending.

Ona of the most prominent warriors was General Igor Rodionov, Russian minister of defence, who warned yesterday officers might be reduced to selling the weapons they had been assigned to guard unless Moscow stepped up spending on the impoverished military.

mutiny but he warnad "chronic under-financing" could trigger disintegration of Russia's armed forces.

The army has denied itself a lot of tha things but if things go on like this the situation will become intolerable," Gen Rodionov said. He said hundreds of thousands of soldiers and their families lived below the poverty line and over 110,000 officers did not have hous-

The minister warned that the military could deteriorate further next year unless the government boosted the Rbs98,700bn (\$18.3bn) earmarked for the armed forces in the draft hudget for 1997, which, seid Gen Rodionov, would cover only one-third of the army's needs. His concerns were echoed

by St Petersburg's alite, who warned in an open letter to Mr Victor Chernomyrdin, the prime minister, that Russia's famed arts institutions

confident the army's finan- would be forced by a shortcial woes would not provoke age of state funds to close their doors beginning today.

"Great countries are not judged merely by the cost of bread but by the condition of their museums, theatres and libraries. It is reprehensible to destroy the irreplaceable memory of past generations!" the letter, signed by a roll call of Russia's cultural luminaries, insisted. Affected institutions are expected to include the Hermitage Musem and the Marinsky theatre.

Like Russia's officers and its cultural leaders, workers in other sectors of the economy are suffering wage delays of several months. The problem of wage arrears is threatening to set off a wava of strikes.

Led by militant local coal miners, most of the city of Vorkuta went on strike yesterday to protest at a fivemonth delay in wages which union officials said threatened to paralyse the north-



Gen Igor Rodionov, Russian defence minister: warned that officers might be reduced to selling weapons

Copenhagen pledges action in biker war

By Hilary Barnes in Copenhagen

The Danish government vesterday promised a crackdown on hiker clubs whose rivalry has led to six deaths in the past two years across the Nordic countries.

The government has decided to take action following a series of recent bomb attscks on biker "forts", or club houses, in Copenhagen, the capital, and other Danish towns, which put the lives of local residents at risk.

One car homh explosion outside a clnbhouse in the town of Roskilde, ahout 30km west of Copenhagen, last month hlew ont windows 200 metres from the scene of the hlast, although no one was hurt in the inci-

Mr Poul Nyrup Rasmussen, the prime minister, told the opening session of par-Hament: "The hiker war is causing the people to fear for their safety. We see the hikers deliherately placing

populated locations. This is completely unacceptable."

The Danish government is the first of the Nordic administrations to react by proposing special measures to give the police greater powers to tackle a biker war which was cansed hy an attempt by the Bandidos to break into territory long controlled by Hell's Angels.

The war has raged across the Nordic countries for the past two years, costing a total of six lives, including two Danes killed in shooting incidents this year.

Many more hikers have heen injured, some seriously, although so far no one who is not associated with the biker clubs has been injured. Legislation would he

tabled this week to give the police powers to prohibit named persons from living in or entering specific huildings, the prime minister said, after every attempt to date by local anthorities to oust the hikers has been als.

their club bouses in densely foiled by tenant protection

Mr Rasmussen said the government would also propose wider search and telephone tapping powers for the police; tongher sentences; better protection of witnesses; powers for summary confiscation of cash if people suspected of narcotics trade cannot document that it has been acquired legally; and better facilities to separate strong from weak prisoners in the coun-

try's prisons. Furthermore, the immigration authorities would be given greater powers to expel non-Danish citizens who had been caught pushing narcotics on the streets. an activity which plagues some areas of the Danish

capital. The non-Socialist opposition parties, which have long called for wider police powers to tackle narcotics crime and violence, yesterday gave qualified support to the government's propos-

Turkey under strong pressure to clean up the launderers

The international community's patience is wearing thin with Ankara's repeated promises to tighten its inadequate controls on the legalising of ill-gotten gains, writes John Barham

financial and property markets; its big informal economy and lax regulation make it a paradise for money launderers.

In the words of one investment banker in Istanbul: "l do not care who you are or how you got your money. You can come in here with a suitcase full of cash and no questions asked. The law tells me I do not have to care. I do not have to give activities to the tax authorities or to the central bank."

Nobody knows how much money from illegal activities is passed through Istanbul's financial system to make the gains appear legal in origin. but Turkey is coming under increasing international

Last week, the Financial Action Task Force, a 24-nation body founded in 1989 by the Group of Seven industrialised countries to comhat the international laundering of drug money, said transfers above \$100,000 between Turkey and member-country banks would be subject to "special scrutiny".

This may cause delays on local businesses' imports and exports, and we hope any information on your they will lean on the government to act," said a European diplomat. However, Turkish bankers doubt the disruption will be very significant. Some countries already require banks to run checks on fund transfers to and from Turkey.

Turkey's freewheeling pressure to crack down on it. emphasises that its measures are intended to shame governments into action rather than to punish noncompliance, "It does not happen often that a country is condemned for lack of (money laundering) legisla-

> The Seychelles was previously the only country to have been put under the spotlight of the task force, which warned international financial institutions last February that a new Seychelles economic development law tolerated money laundering. Two months later, the Seycbelles, not a task force member, adopted anti-money laundering legis-

Turkey is a more impor-A task force official tant case, it is a member,

has a reasonably large and sophisticated financial system, and lies along one of the world's busiest drugs

interpol, the international police organisation, estimates that 75 per cent of beroin seizures and arrests in Europe involve Turkish traffickers or drugs passing through Turkey from Pakistan or Afghanistan.

Heroin seizures in Turkey topped 2,000kg in the first half of this year against nearly 3,500kg in the whole of 1995. Western diplomats believe this probably reflects hoth better detection and more smuggling.

Turkey first sent draft legislation criminalising money laundering to parliament in 1994, but the bill remains

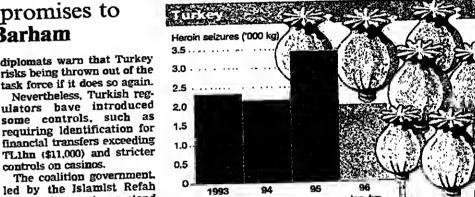
stuck in committee. The law would make it an offence, establish a body to monitor violations, and allow courts to seize laundered funds.

It would also allow "controlled deliveries". These enable police forces from various countries to track a suspect cargo through transit countries to its destination, giving them a better chance of arresting entire networks. Turkey co-operates in controlled deliveries on a case-by-case basis.

A government official said be expected MPs to approve the bill when parliament reconvenes later this month. But western governments are tired of Turkish promises. Parliament bas failed to meet successive deadlines for enacting legislation, and

diplomats warn that Turkey risks being thrown out of the task force if it does so again. Nevertheless, Turkish regulators bave introduced some controls, such as requiring Identification for financial transfers exceeding TL1hn (\$11,000) and stricter controls on casinos.

party, takes a strong stand against drugs, yet money laundering is still not illegal. There is a suspicion that while MPs are willing to criminalise laundering of drug money, they fear this could threaten the large, but tolerated, informal economy. Economists say the underground economy is at least a third as large as Turkey's official gross domestic prod-



uct of \$165.2bn.

Source: Foreign Ministry

Few politicians dare risk voters' wrath by closing it down, particularly as it is a blg source of party dona-tions. Yet distinguishing between money hidden from tax collectors and money earned from drug-running may be difficult.

Turkey has large, loosely regulated property, financial and trading industries - sectors favoured by money launderers. Powerful organlsed crlme syndicates involved in these businesses - plus drug smuggling have notoriously close links to some top politicians.

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International Media Partners and ING Bank are pleased to announce the winners of the 1996 Emerging Markets CEO of the Year Awards

John Browne British Petroleum Company Eka Tjipta Widjaja Sinar Mas Group

John Browne, Group Chief Executive of British Petroleum received the Award for the chief executive of a company beadquartered in the developed world, whose expansion into energing markets has best shown bow these markets can contribute significantly to corporate revenues

and profitability and bas produced benelits for both the countries impolved and the corporation in question.

In 1994, International Media Partners, publishers of Emerging Markets and parent company of the CEO Institutes, and ING Bank, the leading financial institution in emerging markets worldwide, joined to establish two important new Awards.

The purpose was to recognize the sea change in developing economies as countries have gone from debt rescheduling

and aid support to a new world of liberalization, privatization, trade agreements and stock exchanges. Traditionally, recognition has reflected on the policymakers and planners of these economies. The rational behind these unique Emerging Markets CEO Awards is to reward the true builders of these

Eka Tjipta Widjaja, Chairman of Sinar Mus Group was elected winner of the Award for the chief executive of a corporation beadquartered in one of the world's emerging economies whose vision and company performance has best shown the

pattern that can be offered as a model to other emerging markets companies around the world.

markets - businesses and business leaders with vision. Nominations for the Awards

were solicited from around the world and the elections were made by an independent Selection Committee comprised of corporate leaders, institutional investors, government officials and multilateral executives. The Committee's decisions were final. The Awards were presented on

September 30, 1996 during the joint annual meetings of the IMF and World Bank in Washington, D.C.

IMP and ING Bank are delighted to have such worthy recipients of the 1996 Awards and look forward to continuing the tradition in 1997.

Copies of the winners' citations, the list of the Selection Committee members, and details on this and next year's Awards are available by contacting: Ruth Schwartz, CEO, International Media Partners, 611 Broadway, Suite 300, New York, NY 10012. Telephone: (212) 979-3741. Telefax: (212) 995-9389.





EU criticises Israel's use of disproportionate force

By Lionel Barber

The European Union yesterday criticised Israel's use of tanks and helicopter gunships to repel violent protests in the West Bank

last week. EU foreign ministers meeting in Luxembourg also approved an extra Ecu20m (\$25.4m) in aid to Mr Yassir Arafat, president of the Palestinian Authority, to meet a ehortfall in revenue. and authorised the Commission to negotiate a new trade accord with the Palestinians by the end of

Europe's pro-Palestinian tilt reflects a desire to

governments regard as a 1993 Oslo Accord. submissive approach by the US administration toward the bardline Likud decision to reopen the government in Israel ahead disputed Hasmonean tunnel of the Middle East summit in

called on the Israeli Strip, and to withdraw authorities and the troops from Hebron. Palestinians to exercise the utmost restraint, to resume talks and to avoid resorting "to disproportionate force in particular the nse of firearms, tanks and helicopter gunships."

The statement added: "(The European Union) calls on Israel to match its stated commitment to the peace process with concrete actione to fulfil its obligations" under the

In particular, EU ministers asked Israel to reconsider its under Jerusalem'e old town, to reopen the borders with

A joint EU statement the West Bank and the Gaza "The Israelis have to think about the tunnel," said Mr Klaus Kinkel, German foreign minister. He was referring to the flashpoint

> which has led to 72 deaths. Mr Kinkel said that without a reopening of the borders the mood among Palestinians would be "explosive". But he urged his colleagues not to put Israel in the dock. Other

expressed reservations about the EU's language on disproportionate force.

The EU trade pact with the Palestinians requires negotiations between the European Commission and the Palestine Liberation Organisation. It will take the form of an interim deal lasting five years while talks proceed between Israel and the PLO on a permanent arrangement.

deal for the spate of violence agriculture, transport and development aid as well as cultural and scientific matters. Since 1993, the EU has contributed about Ecu320m in grants for the development of the West



Wolfensohn, left, and Camdessus: their warnings on corruption prompt unease about political interference

IMF/WORLD BANK ANNUAL MEETING

Wolfensohn demands IFC fund assault on corruption

By Robert Chots, Economics Editor, in Washington

Mr James Wolfensohn, president of the World Bank, yesterday called on national leaders to stamp out "the cancer of corruption", prompting unease among some African and Asian countries about greater western interference in their

In his main speech to the annual meeting of the World Bank and International Monetary Fund, Mr Wolfensohn warned that corruption undermined electoral support in donor countries for aid programmes and humanitarian relief. In recipient countries, meanwhile, cor-ruption "diverts resources from the poor to the rich, increases the cost of running businesses, distorts public expenditures and deters for-

eign investors". Mr Wolfensohn warned strictly applied, it could take banking crisis.

developing countries that 15 years before the instituEditorial comment, Page 13

solutions to corruption could tions are satisfied." said one only be home-grown. "Natofficial_ leaders need to take a stand," he said, adding that

the Bank would help member countries to implement national programmes that discouraged corrupt prac-tices. Mr Michel Camdessus, the IMF's managing director, agreed in his speecb that "countries must demonstrate that they have no tolerance

for corruption in any form". Over the weekend, Mr Wolfensohn told African representatives that development in their continent was being hampered by corruption, nepotism and a lack of accountability in government. But some African and Asian officials fear that financial support from the Bretton Woods institutions could become increasingly conditional on a western interpretation of "good gov-

"If that conditionality is

Mr Wolfensohn said the Bank could not intervene in the political affairs of its member countries but could provide "advice, encouragement and support". He added that he would not tolerate corruption in any of the programmes that the Bank supported.

The Bank has recently revised its loan documents and procurement guidelines so it can bar companies from Bank-financed contracts if they engage in "corrupt or fraudulent practices". The Bank also has the right to inspect the accounts and records of suppliers.

The heads of the two institutions also drew attention to the threat posed by the fragility of banking systems in many emerging market countries. Mr Wolfensohn claimed that one in five developing countries faced a

invest in projects with total costs of \$250,000-\$5m, with the IFC contribution expected to be \$100,000-\$2.5m in

debt or equity.
"We are looking for ways to increase the IFC'e impact in the poorest countries and most difficult investment

to target

countries

The International Finance

Corporation, the commercial

investment arm of the

World Bank, yesterday said

it would expand its activi-

ties to smaller and poorer

countries whose markets

were too risky or difficult to

The IFC is to establish a

\$40m fund to make small

investments in countries

including Albania, Azerbai-

jan, Bosnia, Cambodia, Laos, El Salvador, Ethiopia,

Eritrea, Macedonia and cen-

This would be used to

tral African nations.

attract private capital.

smaller

By Patti Waldmeir

in Washington

environments," said Mr Jan-nik Lindback, IFC executive vice-president, announcing the three-year pilot pro-

The aim is to promote development of the private private investors avoid, and which the IFC has also failed to tackle np to

More than half the corporation's annual investment currently goes to a handful of relatively advanced developing countries, such as Brazil and Mexico. But these countries also receive the bulk of foreign private investment, leading to criticism that the IFC is merely duplicating the work of the

markets. The corporation wants to counter these criticisms, but it, unlike the World Bank, is strongly profit-orientated and investing in underdeveloped emerging economies could jeopardise its profits.

The IFC's challenge, said Mr Wilfried Kaffenberger, vice-president operations, was "to do good projects at the edge of what the market will do, while also showing a bottom line". The set-up costs of the \$40m Small Enterprise Fund would be \$20m, for example, although this also would finance operations beyond the three-year initial phase

Mr Kaffenberger acknowledged the risks involved in such investment.

hope for joh creation".

Clinton takes least risky option in calling summit

By Jurek Martin in Washington

There is an element of political risk in President Bill Clinton's decision to convene the emergency Middle Rast summit which began in Washington yesterday. But it may not have been as risky as the alternative - to do nothing until after the US presidential election on November 5.

Foreign policy advisers to is this week. Mr Bob Dole, already concerned that the Republican candidate has not been a statement expressing doing enough to challenge Mr Clinton on foreign policy, leapt into the fray on Monday with charges that convening the summit was a further indication of the mismanagement of US external

A bevy of former Republican cabinet members, led by Ms Jeane Kirkpatrick, the former ambassador to the

James Schlesinger, ex-de- also traditionally voted for others in the past, has not fence secretary, epoke of one failure after another" and of claimed foreign policy successes, as in the Middle East, which "blow up" in the administration's face.

Bnt Mr Schlesinger, though not Ms Kirkpatrick, felt obliged to point out that Mr Dole himself was inclined to be "supportive" whenever the president was personally engaged in diplomacy, as he

That did not prevent the Dole campaign from issuing unequivocal support for

That must be seen as a clear appeal to the US Jewish vote and a criticism of the Clinton administration for openly preferring Mr Shimon Peres over Mr Benjamin Netanyahu in the Israeli

election in May. Bnt Mr Netanyahn is not particularly popular among

Democrats in US elections. This was evident in an editorial this week in the New York Times, which reflects

moderate Jewish opinion. The newspaper warned Mr Netanyahu, as weli as Mr Yassir Arafat, president of the Palestinian Authority, not to press confrontation too far and said the question of the archaeological tunnel in Jerusalem should be a negotiating "detail," not a matter of principle.

It also argued that any campaign gains for Mr Clinton should be seen as "incldental" against the more important and necessary exercise of US mediation in the face of last week's violent clasbes.

Mr Warren Christopher. the secretary of state, has been careful to advise not to expect "miracles" in Washington, thus acknowledging that the outcome of this United Nations, and Mr American Jews, who have summit, unlike eo many election.

been scripted in advance. But with the US electorate

disinclined to pay much attention to foreign policy, it may be sufficient for Mr Clinton to have been seen to have tried to bring recalcitrant parties back to the cause the peace. A "success' here might burnish his foreign policy credentials but failure might not be laid exclusively at his door.

Mr Christopher has also noted that the peace process has proved surprisingly "durable" in spite of previous challenges, including West Bank unrest and last year's terrorist bombings in Israeli cities.

The alternative - to allow events to take their course without prompt US intervention - might well have saddled Mr Clinton with exactly the sort of foreign policy problem he would like to avoid in the run-up to the



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New focus on ensuring soundness of banking

By George Graham in Washington'-

The letters IMF, according to an old Washington joke, stand for: "It's Mostly Fis-

These days however, the International Monetary Fund, along with its sister institutions such as the World Bank and the Inter-American Development Bank, has started to pay attention to the soundness of national banking eystems alongside its traditional con-

cern with budget policy.
At the weekend, the maintenance of healthy national banking systems became one of the "eleven commandments" endorsed by the Interim Committee, the IMF's main; policy-setting ministerial committee, as a strategy for strengthening the global economy.

Governments have always failures, which can spill over from one weak institution to damage many other basically healthy ones. But the IMF's new focus on the issue reflects a greater recognition that without a sound banking system; it becomes much more difficult for a government to keep its economic

policy on track. Unhealthy banks tend to chase ever riskier loans in an effort to stay afloat. That in turn makes them less responsive to the government'e attempts to steer monetary policy, and damchannelling credit away from the sectors that could

make the best use of it. IMF officials studied their 181 member countries and found that, over the last 15 years, no fewer than 123 had suffered significant problems in their banking sectors. In 36 countries, ranging from

Mexico and Argentina to Spain and Malaysia, the problems reached the level of a full-blown crisis. In their analysis of the causes of banking problems, IMF officials emphasise that the primary responsibility for keeping a bank healthy lies with its own manage-

ment. But they are also keen to promote better supervision, improved accounting

real economy hy

been worried about bank and corporate governance rules and stronger capital

> Central bankers in the Group of Ten industrialised countries have for the last 20 years moved closer to each other on supervisory and capital adequacy standards by adopting the framework developed by the Bank for International Settlements in

The Basle rules require banks to maintain a capital base equivalent to at least 8 per cent of their loans and other assets, weighted according to their level of

But Mr Andrew Crockett, the BIS's head, warms that

stalled economic reforms.

many banks appear to be complying with this ratio just days before they col-

"When you have a figure like 8 per cent, the danger is that people think that is enough," he told a conference on banking soundness organised by the IADB in Washington to coincide with the IMF's annual gathering of finance ministers and central bank governors.

Mr Pedro Pon, governor of the central bank of Argentina, has set a higher ratio of 11.5 per cent for his country's banks, but warned that the whole Basle framework might need further adaptation to meet the needs of emerging markets in Latin America and elsewhere.

"Our regulations may need to be more complex as our risks are more complex," he

Mr Pou suggested that loans might need to be weighted in line with their interest rate, on the assumption that higher rate loans are likely to be riskier. The IMF, meanwhile, still

finds gaping holes in many of the international standarde used to measure banks' health, especially in the accounting field. Mr Michel Camdessus, its managing director, wants to press for the development of new international guidelines to meet a threat he still sees looming.

"Despite all these initiatives, we are not yet at the point where it is possible to consider that the situation is under control," he said.

of the programme,

"One is ultimately hanking on the character and integrity" of the recipient, he said, rather than on detailed feasibility studies. The IFC would be looking at family businesses which, for a modest investment, could produce for the local market while offering "the best

Nigeria to revive economic reform

By Our Foreign Staff

General Sani Abacha, Nigeria's military ruler, yesterday announced the creation of six more states and the establishment of an ecooomic think tank.

In a separate development, the country's finance minister Anthony Ani said in Washington the interest rate ceiling of 21 per cent had been ebolished.

ahead with his own pro-

tive, and there appears to be little to choose between The moves follow Monday's approval of five of the Nigeria will now have 36 15 political parties applying states. Gen Abacha has argued that state creation for government recognition. They suggest that Gen Abadecentralises power, but critics see it as an inefficient cha is determined to press

gramme and timetable for a bureaucracy, placing more return to democracy, despite patronage in the hands of central government without international calls for early devolving significant authormulti-party elections, while at the eams time reviving

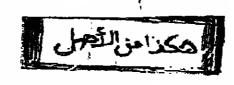
Gen Abacha, speaking on Nigeria's 36th independence anniversary, raised hopes The five parties qualifying for registration were headed by the United Nigeria Conthat the country's lapsed economic reform programme gress Party of Yahaya may be put back on track All the five are conservawith the appointment of an economic planning committee, headed by the country's former civilian administrator, Chief Ernest Shonekan.

The committee will sit for between nine and 12 months, charged with drawing up a blueprint for Nigeria's development to be known as

Speculation that the government is anxious to resume an economic reform programme was reinforced by the decision to lift the ceiling on interest rates, a significant sticking point blocking agreements with the World Bank.

"Vision 2010".

The clearest test of government intentions, however, remains exchange rate policy. Both World Bank and IMF officials have made clear that the current twotier system, which allows government officials and sympathisers to buy hard currency at e discount, must



OCTOBER 2 1996

Apple 1

Marie State State

Emergency talks on ship subsidies

Anne Counsell in Washington

hold emergency talks this next Congress to endorse it mouth on the future of an Mr Donald Johnson, international agreement to secretary-general of the curb subsidies in the sector, which has been put at risk. Washington to clarify its by the failure of Congress to position. approve it.

negotiate in into uncertainty on Friday - the industry. when intense opposition from leading US shipyards prassure on European

the Senate.

The Clinton administration, which supported The US and other leading the agreement, has not said OECD, was yesterday urging

Industry experts warned The accord on subsidies, that a further long delay in which took five years to US ratification of the deal tha which was due to take effect Organisation for Economic at the start of this year, Co-operation and would lead to a fresh Development, was thrown outbreak of price-cutting in

That could increase

WTO calls for

blocked a decisive vote in governments to step up state support for troublad European shipyards. subsidies and tax breaks to the industry, worth almost \$1bn a year, are the largest in the world.

A US trade official yesterday said the planned meeting, on October 17 and 18, would provide an opportunity to "sound out the intentions" of the other signatories to the agreement the European Union, Japan, South Korea and

"At this point we are not walking away from the agreement," the US official said. We need to discuss it to withdraw from the into recess ahead of US with other parties, as well as agreement altogether.

The official said the other signatories, which have all ratified the accord, could choose to go ahead without However, that option

appears to be ruled out by a requirement that the agreement must be ratified Any US proposal that the

would also fece serious Korea and Japan are shipbuilding opposed to any such move and might use it as a pretext

deal be renegotiated to meet objections in Congress

foundered on opposition from six large defence shipyards, which want federal subsidies to help them re-enter the merchant shipbuilding sector.

They lobbied successfully for an amendment designed to exempt such subsidies from the OECD disciplines. Even though Senator John Breaux, who led the fight for

approval of the OECD deal, agreed to incorporate much of the amendment into the final legislation, the prevented it from coming to a vote before Congress went elections on November 5.



Seeking clarity: Donald Johnson, OECD secretary-general, has urged the Clinton administration to outline its position

US vehicle group to invest heavily in rapidly growing car market

Korea reforms GM to tighten grip on east Europe

in Geneva

South Korea should accelerate trade liberalisation to match its growing stature as a global economic power, the World Trade Organisation said yesterday. In a report discussed by WTO members this week, the WTO secretariat says South Korea, the world's 12th biggest exporter of goods, has taken important steps in recent years to lower trade barriers and deregulate its economy.

Tariffs have been slashed to 7 per cent on average for manufactured goods, quota restrictions have been abolished in almost all sectors, many non-tariff barriers have been removed and there has been gradual liberalisation of inward foreign investment in industry and services. However, the report notes that certain sectors, including agriculture and some services, remain. "largely insulated" from international competition, creating economic distortions at home and political frictions abroad.

the transport, communications, financial and business

tors," the WTO points out. Moreover, reforms have ften been motivated primarily by outside pressures. including world trade negoti-ations. "While the authorities are committed to continued investment and trade liberalisation, their general approach has remained

somewhat reactive in sensitive areas," the report adds. Concern is also axpressed over the narrow focus of Korean exports, with semiconductors and cars accounting for nearly 25 per cent of all merchandise exports. Its widening trade deficit, the WTO says, is mainly due to its skewed industrial structure since principal industries such as electronics and

motor vehicles rely heavily

on imported components.
Other criticisms by trading partners concern safety and health regulations, discriminatory taxation of spirits and government procurement procedures, as well as continued high trade barriers in agriculture, fisheries and many services.

Still, South Korea has

gone beyond its commitments as a developing coun-"Significant portions of try in protecting intellectual property, and will open the bulk of its domestic telecomservices industries are still munications sector to forrestricted for foreign inves- eign competition in 1998.

biggest vehicle maker, said yesterday it would boost investment in central and eastern Europe to reinforce its position as one of the

leading manufacturers in the Mr David Herman, chairman of GM's Opel subsidiary in Germany, which is spearheading its push into the expanding car markets of eastern Europe, said the group was looking at further investments in the former Soviet Union and additional spending on existing projects in eastern Europe.

GM will underline its commitment today when Mr Louis Hughes, head of GM's

erman investment in

central & eastern Europe

General Motors, the world's international operations, employ about 2,000 people, on three shift working. performs a ground-breaking ceremony at the company's latest car plant near Katowice in southern Poland.

GM, which expects demand for cars in central and eastern Europe to soar by 80 per cent in the next decade, has already allocated over DM1.2bn (\$787m) to the region, making it one of the biggest investors. Although it ranks behind Volkswagen in terms of spending, GM's investment has been spread more widely.

The DM470m Polish factory is scheduled to produce 72,000 cars a year when outpnt starts in 1998. The inte-

will include metal stamping. welding and paintwork as well as final assembly. The factory will produce a low-cost family vehicle based on the Opel/Vauxhall Astra, with local content rising to 60 per cent after two or three years.

GM last week opened a cylinder head plant at its engine and car assembly plant at Szentgotthard in western Hungary - the cul-mination of a DM700m Investment drive by GM since 1990. The new cylinder bead plant and associated investments will double

first to use an innovative parallel production process, rather than a conventional transfer line. The "agile cell system", which is being replicated at new GM engine plants in Australie and Brazil, allows a wider product mix and greater flexibility in reacting to changes in damand than conventional

machining, according to Mr Albert Lidauer, managing director of Opel Hungary. The operation reinforces GM's position as one of the biggest foreign investors in engine output in Sventgot- Hungary, with more than grated plant, which will thard to 460,000 units a year 900 employees. Opel's local

subsidiary is Hungary's The DM235m cylinder most profitable company and head plant is the world's ranks fourth in terms of sales and in the top three for exports. The 1.4 and 1.6 litre Ecotec engines built in Hungary are exported to GM plants in Europe and Brazil. while locally produced vehicles have been sold in Italy and China as well as Hungary, where Opel has 20 per cent of the market.

GM's latest investments highlight the growing importance of central and eastern Europe for the world's vehicle groups. In the past month, VW has opened a car assembly plant and paint sbop at its Skoda subsidiary in the Czech Republic.

The US bas also claimed that Japan agreed to deregulate other, so-called primary sectors of the insurance market to provide greater opportunities for foreign insurance providers, before it introduces greater competiinvestment and the Czecb tion into the third sector.

Japan

clash

in Tokyo

By Michiyo Nakamoto

puts off

insurance

The US and Japan agreed

yesterday to continue talks

on the deregulation of

Japan's insurance market

until mid-December, in a

move that puts off a possible

confrontation until after

elections in both countries.

Mr Wataru Kubo, Japan's

finance minister, and Ms

Charlene Barsbefsky, acting

US trade representative, met

in Washington and agreed to

settle a bilateral dispute

over opening Japan's insur-

ance market by December

Japan's ministry of

finance, bowever, yesterday

announced e number of

deregulation measures in the

insurance market and a tem-

porary restriction on Japa-

nese insurance companies'

entry into the so-called third

sector, in a bid to ease ten-

The US has charged that

Japan's decision to allow

domestic companies to enter

the third sector, which cov-

ers products such as per-

sonal accident insurance and

sickness insurance, through

their subsidiaries breaches a 1994 US-Japan agreement

not to introduce "radical

change" into the sector

where foreign companies

have carved a profitable

niche for themselves.

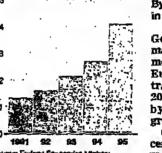
sions with the US.

In its compromise proposals, the ministry of finance bas offered to put a hold on the entry of domestic insurance companies into accident insurance, stand-alone cancer insurance and medical insurance until the end of December.

The finance ministry bas also agreed to allow marketing of vehicle insurance through direct-mail.

Low costs lure Germans to east

total investment abroad in 470 companies together with



By Frederick Stüdemann

German companies bave markedly stepped up invest-Europe and could double trade with the region by German investment in

central and eastern Europe

and eastern Europe the third most popular destinament in central and eastern tion for investment by companies after the European Union and North America. 2000, according to a report which accounted respecting centry an employers' lobby tively for 62 per cent and 17 Europe. per cent.

According to the Federa- countries were Hungary, tion of German Industry which accounted for 44.5 per rose to DM4.13m (\$2.80n) or (BDI), the lobby group, cent of the respondents'

1995. This makes central the Institute of the German Economy (IW) and the German East-West Trade Committee, cheaper production costs were the main attraction for companies investing in central and eastern

The most popular target

Republic with 30.3 per cent. Rnssia, where companies said they were more concerned with securing a position in the market, accounted for 6 per cent. The snrvey respondents

said that contractual and political uncertainties and generally poor economic conditions in countries further east were a significant brake on investment.

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fears over oil payments

Prices of petrol in Burma have returned to normal as the country's apparent fuel shortage has suddenly disappeared.

Oil industry executives said the roots of panic buying a week ago are now seen to be found in attempts by the government to play off Japanese trading companies against each other that backfired. An apparant lack of foreign currency was not immediately to blame.

Petrol yesterday was selling for 250 kyat (\$US1.56 at market rates) a gallon or less in the capital Rangoon. down from 400 last week when prices doubled and long queues appeared at service stations

The problems coincided with a statement by Mitsui – which last year prised a supply contract for oil away from its rival, Marubeni – tbat Burma's military regime was bahind on pay-

Mitsui bas recently been seen to be winning the race smong Japanese trading houses in Burma, and Asian diplomats say Marubeni is under pressure to regain the business lost to its rival. Burma's decision to delay payments now appears to have been an attempt to exploit this rivalry in return

for commercial concessions. Mitsui declined to comment directly, but Mr Mike Nagai, Its general manager in Rangoon, acknowledged that Burma was seeking finance for the contract. "It is standard for a developing country to seek a financing any major purchasing agree-

International pressure on

Burma is intensifying after

the military regime's announcement that it had

detained more than 500 sup-

porters of Ms Aung San Suu

Kyi's National League for

Democracy and that access

to Ms Suu Kyi's home would

At the insistence of the

UK, senior European Union

officials yesterday discussed

possible measures that could

be taken against the regime.

Denmark recently proposed

economic sanctions against

Burma after Mr James

Nichols, its honorary consul

in Rangoon and financial

backer of Ms Sun Kyi, died

in jail after being imprisoned

for operating a fax machine

without permission.
"The UK believes it will be

necessary to take further

international action against

the Slorc (Burma's ruling

army council)," the British

foreign office said. In the

past the UK has opposed uni-

vesterday that in the past

lateral EU sanctions. Burmese authorities said

be blocked indefinitely.

Burma was trying to per-suade Mitsul to transform the overdue payments into equity in other local projects. His company did not helleve in "mixing contracts", though it had many

projects in Burma which It continued to pursue. Diplomats originally estimated the amount owed to Mitsui to be around \$30m. Oil industry executives now say the number could be twice that. These arrears prompted speculation that Burma, which in 1995 owed \$356m to international creditors but paid only \$216m, was on the verge of a bal-

ancs of payments crisis. But since Friday three vessels carrying 6,000 tonnes of diesel each, some of it supplied by Mitsui under a separate contract, and one vessel carrying 2m gallons of petrol, supplied by Mitsubishi. have begun unloading their shipments at Rangoon port. Port officials say they have been told to expect another shipment of between 50.000 and 60,000 tonnes of crude

oil - valued at around \$10m - in the coming days. Burmese husinessmen say the large expected shipment is likely to have been supplied on credit by Marubeni.

Burmese officials claim that the shipment shows the government bas bard currency to keep the country going and that the panic was caused in part by a speech by democracy activist Ms Aung San Suu Kyi referring to Mitsui's cootract.

Mr Thein Lwin, director of the ministry of energy's planning department, says the government will finalise agreement when negotiating a new long-term supply contract soon, probably with

preserve the peace and tran-

approached the roadblocks

which have been erected around Ms Suu Kyi's house

since last Friday. Elgbtv-

eight of those detained have

subsequently been released.

As for the future of the

roadblocks and Ms Suu Kvi's

regular weekend speeches,

which attract thousands of

supporters and are the

NLD's main forum for dis-

seminating information.

senior defence ministry offi-

cials strongly hinted that

public access to Ms Suu Kyi

would continue to be barred.

"The government bas

Pressure grows Senator Alston. Cross-ownership con-straints currently prohibit anyone from controlling diffor sanctions

There are also limits on forelgn ownership of Austraseveral days they bad lian media assets, although arrested 159 people to prethese are more discretionvent an NLD party coogtess from taking place over last weekend. An additional 400

people were rounded up "to quility of the state" after some NLD supporters

tbe media constraints will bave an immediate impact on the ownership tangle at John Fairfax, Australia's leading newspaper gronp and publisher of heavyweight papers in both Sydney and Melbourne.

Cross-ownership rules currently prevent Mr Kerry Packer, the Australian husinessman, from lifting bis stake in Fairfax above 15 per cent, while Mr Conrad Black, the Canadian media proprietor, is pegged at 25

repeatedly acknowledged that holding this kind of weekend meeting violated existing laws," said Col Kvaw Thein. "I don't know what lies ahead" but measures would be taken against "anything that violates existit took office in March.

public inquiry on media

By Nikki Tait in Sydney

Tha Australian federal government yesterday abandoned election pledges to bold a full public inquiry into the country's media

Defending the decision to issne a discussion paper Instead, Senator Richard Alston, communications minister, claimed that a full public luquiry into the highly sensitive subject "wasn't likely to achieve the result of baving a sensible and balanced discussion of the major issues". He added: "It was more

likely to turn into a media The government's move bronght an immediate political outery, with opposition parties claiming it was a clear breach of an election promise and suggesting the

government bad been "got

at" by vested interests. Ms Cheryl Kernot, leader of the Australian Democrats, largest of the minor parties, said: "To me it all smacks of our entitlement to be suspicious about who's got at them, what's changed their mind, and above all, that they still think it comes back to controlling the dis-

Instead of the anticipated open hearings of a public inquiry - which would bave seen the country's blg media proprietors, such Mr Kerry Packer and Mr Rupert Murdocb, make personal submissions - interested partles are being invited to submit written comments on the issue by the middle of November.

Legislation will then be introduced into parliament next year, in the light of this discussion, according to

ferent types of media in the same geographical area.

government bas suggested that reconsideration of these rules is warranted by changing technol-

However, any rethink of

per cent by foreign owner-ship contraints.

Both businessmen have, in the recent past, indicated they would like to raise these boldings, and Mr Black has expressed frustration at the slow progress being made by the new government on the issue since

Burma eases Canberra Hong Kong sees race for leadership hot up

in the running

n racing terms worthy of horse-mad Hong Kong. the contest to head the post-colonial government is bringing late runs and jockeying for position as contenders enter the final

The past week bas seen the field grow from three to five, the latest coming on Monday with the entry of Mr Peter Woo, a prominent tycoon. More rivals are likely hefore a decision is taken in November or early December about who will, in effect, be the guardian of the territory's promised autonomy after the transfer of sovereignty on July 1 next year. Despite the stakes, or because of them, many question the contest's sincerity. Ms Emily Lau, an indepen-dent legislator, claims the

issue is too Important for

Beijing to leave it to chance.

China, she says, has already

decided that Mr Tung Chee-

bwa, the shipping magnate, is their man for the job. According to this view other candidates, Sir Ti Liang Yang, the former chief justice, Mr Lo Tak-shing, a solicitor, and Mr Arthur Garcia, a former judge of Eurasian descent, simply give the impression of a contest. When the winning name is given to Beiling for appointment, after selection in a secret ballot by a 400-member committee, itself chosen

hy s 150-memher Beijing-

appointed body, there will be

little scope for surprises. But while Beijing is expected to swing the result, manoeuvring has intensified and the outcome has become less predictable. The rising number of candidates threatens Wco drawing some of Mr Tung's business backers. More significant is the fact that Beijing appears undeclded. "There is a real chance of a genuine competition," says a member of the preparatory committee. There is not necessarily ona Beijing view, nor one candi-date they have in mind."

thought to favour Mr Tung. a famous handshake earlier this year. But Prime Minister Ll Peng and the New China News Ageocy, Beijing's de facto embassy in Hong Kong, lean towards Sir Ti Liang and Mr Lo, generally considered the hardline option. Mr Garcia, with no

The people's choice for chief executive Lo Tale etting 0.5% Undeckled 35.596 Sunday Hong Kong Standard opinion poli published Sept a, before Peter Woo announced his candidarray and Tung Chee-hivs said he was actively prepared to run. Mr Tung has show shown an increase in the opinion polis.

significant backers, is considered an outsider.

Mr Tung himself is playing a cagey gama. Last month he announced be was "actively preparing" to put his nama forward. Ha has since been canvassing the opinions of political and social groups and setting his corporate interests in order. But his cantious approach underlines his reservations about the post and the pressures it involves.

"I wouldn't wish this joh on my worst enemy," said to split support, with Mr another businessman, "If you stand up for Hong Kong then you will be deemed unpatriotic. If you don't, then this place will he in trouble."

One aspect of the intensifying competition is that it makes the candidates address tha issues at stake. Mr Woo sounded like any democratic contender when President Jiang Zemin is outlining his platform, stressing his commitment to and signalled as much with social justice and the need to uphold Hong Kong's inter-

> Like the low-profile Mr also be wooed, probably with Tung he promised to address more success, by Mr Tung problems raised by his business boldings. Mr Wco owns part of a family trust that controls Wheelock & Co and Wharf Holdings, two of the

territory's biggest business groups and part of the comrcial empire of his fatherin-law, the late Sir Y.K. Pao. Sir Ti Liang is presenting himself as an independent candidate, with no conflict-

ing commercial interests and aloof from the rivalry between Mr Woo and the Tung camp, which is backed by Mr Li Ka-shing, a top Hong Kong industrialist. Also important will be how Mrs Ansou Chan plays

her cards. The chief secretary is by some distance the most popular political figure in Hong Kong, She is supported hy husiness in the territory and abroad for her strong stance on the rule of law and the stability she would bring to the transition. Were it not for ber close ties to the present administration she would be favourite for the top post.

Mindful of Mrs Chan's importance. Sir Ti Liang said this week that he would seek to retain her as chief secretary should he win the contest. Mrs Chan would and Mr Woo. For most observers she is an important part of a winning ticket.

John Ridding

ASIA-PACIFIC NEWS DIGEST

Unemployment eases in Japan

Japanese unemployment eased slightly in August, but tha labour market remained weak, suggesting joblessness will continue to be a drag on economic growth for the . foreseeable future. The unemployment rate fell to 3.3 per cent - or 2.34m people out of work - from 3.2 per cent in July, the second consecutive month of decline from the record 3.5 per cent achieved in June, the government's management and co-ordination agency said yesterday.

That is low by western standards because of unusually loose criteria used by the agency to define people in work. Using comparable statistics, privata sector economists believe that Japan's underlying unemployment rate is closer to the US, just under 5.5 per cent. That does not includa Japan's many more surplus workers who are employed in unproductive jobs, because of companies reinctance to sack people. Unemployment is especially acute among the young, where the August rate was 6 per cent for 15-24 year olds. . William Dawkins, Tokyo

Foreign currency reserves rise

Japan's foreign exchange reserves at the end of September increased \$1bn from the previous month to \$215.03bn, rising for the 35th straight month and marking a new record for the 31st consecutive month, the finance

ministry reported yesterday.

The number of mergers and acquisitions involving Japanese companies in the January-September period rose 16.1 per cent from the same period last year to 454, the highest number since 1990, Daiwa Securities reported yesterday. Outside Japan, Japanese companies were involved in 188 mergers and acquisitions, an increase of

North Korea seeks meeting

North Korea has requested a "working level" meeting today with the United Nations Command, which represents US and South Korean military forces, in the expectation that it will demand the return of a submarine that ran aground in South Korea two weeks ago. North Korea has claimed that the submarine drifted into South Korean waters by accident owing to engine problems. It earlier refused to accept a UN protest that the submarine intrusion deliberately violated the armistice agreement that ended the 1950-53 Korean war.

North Korea has rarely requested a military armistice commission meeting in the last few years ever since it decided to ahandon the armistice arrangement in a bid to press the US to sign a peace treaty.

Vietnam cuts interest rates

Vietnam's central bank yesterday cut interest rates for the fourth time this year in a bid to stimulate economic growth and plug a widening trade deficit. The reduction comes a week after Vietnam's central bank chief, Mr Cao Si Kiem, said the communist-run country would reduce interest rates in tandem with a gradual devaluation of the currency, the dong, to boost growth. The central bank said that the interest ceiling on short-term dong loans was lowered to 1.25 per month, from 1.50 per cent. The figure at the beginning of the year was 2.1 per

Mahathir confident over dam

Dr Mahathir Mohamad, Malaysia's prime minister, said yesterday that disagreements between the contractor and the Malaysian company overseeing construction of a JS\$5.5hn dam, Asia's biggest, are responsible for a delay in signing a contract. Commenting on Monday's postponement of a signing ceremony to award the Bakun dam contract to an international consortium led by Swissbased ABB, , Dr Mahathir said he was confident current differences would be ironed out and the contract signed

Prosecutor quits over Rao bail pressure

By Lisa Vaughan in New Delhi

A prosecutor for the Indian federal police bas resigned in protest after being pressed by the 13-party United Front government to grant bail to Mr P.V. Narasimha Rao in a case in which the former prime minister is accused of cheating an expatriate businessman of \$100,000.

Mr Gopal Subramanian, senior counsel for the Central Burean of Investigation (CBI). India's main criminal investigation agency, quit

> ben one of South industrial groups

recently announced it was

cutting 840 jobs through

early retirement, it came as

a shock to a nation that

groups, or chaebol, as a guarantee of lifetime employ-

Indeed, the job cuts

nearly 40 per cent of the workforce - at the textila

manufacturer Sunkyong Industries may be a harbin-

ger of things to come. Corpo-

rate "downsizing" has

become the new manage-

ment slogan for the giant

conglomerates, which are

normally known for their

Korea's economic woes are

ambitious expansiou plans.

forcing the chaebol to con

sider what economists and

government officials have long recommended they do hy streamlining their

With total net profits for

listed companies having

fallen by 55 per cent during the first half of 1996, it is

clear the *chaebol* must cut

their production costs.

which exceed those of other

Asian tiger economies such

through a painful adjust-

ment period, just as the US and Japan did, over the next

five years if It is to recover

"Korea will hava to go

as Taiwan and Singapore.

to object to Mr Rao's bail plea, on directions from the Law Ministry, the Times of India said.

India's leading opposition party, the Higdu nationalist Bharatiya Janata party (BJP), claimed the prima minister, Mr H.D. Deve Gowda, was trying to shield his predecessor.

Mr Rao, who led the Congress

party to a humiliating defeat in elections in May after five years as prime minister, was ordered by the CBI on September 21 to appear in criminal investigation agency, quit court this week on charges of conafter allegedly receiving a letter spiring with a Hindin guru to cheat from a CBI director ordering him not the indian expatriate businessman whose new minority coalition gov against him.

in a 1983 business deal. The court ernment depends on Congress sup-order prompted his immediate resignort in parliament, had a private nation from the party presidency of meeting with Mr Rao on the eve of

"eventually".

dence in 1947. bail the same day. But petitioned by try of his government.

Congress - which has ruled India for his scheduled court appearance, and all but four years since indepen- with India's chief justice over the weekend. This had raised suspicions dence in 1947. weekend. This had raised suspicions

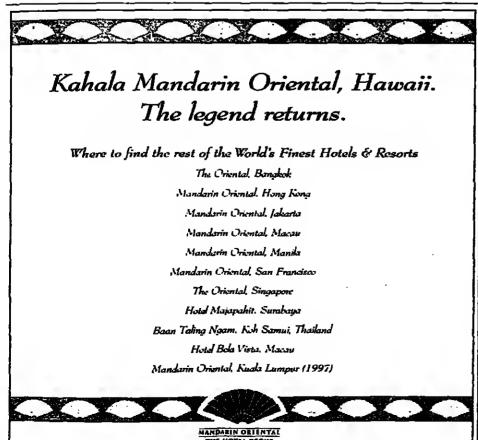
Lawyers had expected him to be that the prime minister is helping arrested or jailed, and to apply for. Mr Rao in order to ensure the stabil-

James Kynge, Kuala Lumpu

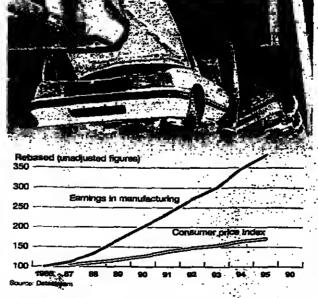
the police to change the venue of the ... Mr Rao has also been charged in a court appearance for security rea separats forgery case, and his sons, the court exempted Mr Rao involvement in the alleged bribing of from appearing at the last minute. opposition MPs to secure a confi-

Maturing S Korea suffers labour pains

A job for life with the big groups could be a thing of the past, writes John Burton South Kopper the high cost of inhour



UK 0800 96 26 67 the free! . France 0590 76 97 that free! . Germany 0130 81 40 67 that free! . Spote 900 99 32 67 that free! "Designating The Act of the International, or gover track professional



John Dikel, haad of research HG Asia Securities in Secul. John An obvious place to start is labour. Nominal manufacthring wage costs have

have grown even highar

since they provide generous

social benefits, such as sub-

climbed on average 16 per cent annually over the past decade of facing productiv-ity groups.

Waye costs for the chaebol

sidised housing, to workers. However, cutting jobs is rigid labour laws. Although still regarded as a developing economy, its labour market can be as inflexible as those of advanced European infustrial countries.

"Korean workers enjoy strong job security rights that make it difficult for companies to dismiss employees when they need

years of wages.
Burdened with a bloated workforce that is expensive to reduce most chaebol have normally chosen the alternative of expanding their industrial facilities to create jobs for excess workers. This unusual strategy had been encouraged by the gov-ernment, which favoured a

and economy minister.

Companies that cut johs

yong's case, these included

two years of school fees for children as well several

policy of full employment. Moreover, it reflected Korean social values Korea is a highly egalitar-

ian society and anyone engaged in massiva Job losses would be blamed and criticised for creating social inequality," said an executiva with Hyundai, one of the largest *chaeboi*. But the country's eco-nomic problems are changing official attitudes. The

government is seeking a reduction in job security rights in return for giving trada unions greater freedom to organise. The issue is being debated

by a presidential panel that will propose labour law reforms as part of Korea's application to join tha Organisation for Economic

to downsize," said Mr Rha Co-operation and Develop-Woong bae, a former finance ment. Meanwhile, most chaebol must offer generous redun-dancy payments. In Sunk-

are taking a cantious approach to joh cuts, in spite of Sunkyong's example. The Federation of Korean Industries, which represents the chaebol, earlier this month proposed a policy of a wage freeze and early retirements. But it quickly climbed down

inder union pressure.

Instead, chaebol executives have offered to freeze their wages next year in an attempt to peranade the workforce to do likewise. Faw analysts believe tha measure will be effective.
The government may also eventually decide to leave

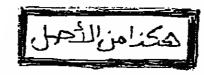
Job security rights intact, at least for another year, since it wants to svoid a fight with the trade unions in 1997, when there is a presidential

election

Even if job security rights

are eased, some chaebol will
confront social pressure to
avoid jib cuts, "Unlike
smaller companies it's
almost impossible for Hymdai to cut 10 per cent of its workforce since it would amount to 20,000 jobs," said the Hyundat executive.

instead, the chaeboi are finding another solution to the problem by moving production facilities to counwhile allowing industrial



*OCTOBER ?

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Curbs on encryption software to ease Colombia eyes

The Clinton administration to ease export restrictions on powerful encryption softwere that can be used to credit card numbers and scramble electronic messages to prevent eavesdropping by computer hackers.

The plan, announced yes terday by Mr Al Gore, the vice-president, is aimed at ending a fractious four-year debate that has pitted the US computer and software industries against law enforcement and intelligence

Sw Argentines would

deny that unemployment, now at more

than 17 per cent, was the

country's most urgent prob-

lem. Yet most balk at the

proposed solution of Presi-

dent Carlos Menem: make it

easier and cheaper to hire

labour market more flexible

hit at the heart of the ideol-

ogy of Mr Menem's Peronist

Domingo Perón, who governed from 1946 to 1955, the

government increased work-

ers' rights and benefits, and

As a result, according to

Ms Carola Pessino, chief

adviser on labour issues at

the economy ministry,

sized companies simply can-

The result, she says, is an

estimated 5m people work-

ing on the black market -

and therefore not paying.

taxes - and an economy that

does not creste sufficient

jobs. From 1991-1994 gross

domestic product grew at an

average rate of nearly 8 per

unemployment rose from 6

jobs outstripped supply and down.

Conceived and Photographed by Richard Avedon

built up trade union power.

party. Under General Juan

Attempts to make ths

and fire.

not follow.

tion softwars, which it believes is essential for the merce. Consumers and busiother sonsitive information cannot be intercepted, busi-

ness leaders maintain. Moreover, US companies claim that, under current export restrictions which preclude exports of encryption technology with the exception of relatively weak scrambling schemes, they stand to lose up to \$60bn of business by the year 2000 to cies can today obtain court

world, are much to hlame,

says Ms Pessino. These cre-

ate what sha calls a "tax

wedge" - tha diffarence

between a worker's nominal

administration has reduced

tax discrimination against

The tax wedge in the US is

only about 20 per cent, says

Ms Pessino, but Argentina's

high costs could be a hless-ing in disguise, "Wa can

lower labour costs without

reducing wages, whereas in

the US, to tackle unemploy-

per cent to a peak of more study by the World Bank, a and bonuses. There are

Argentina has been left with wage and the employer's

a rigid labour market in actual expenditure - of

which powerful unions set nearly 40 per cent. This used national labour contracts to be higher, but has been

which small and medium- brought down as the Menem

cent a year, yet demand for ment, wages had to go

Payroll tax*

Argentina's unemployment burden

US industry wants to be foreign competitors offering abls to export strong encryp stronger encryption soft-

yesterday announced plans growth of electronic com- intelligence agencies say, however, that they must be nesses need assurances that able to tap electronic transmissions to detect crime and to gather intelligence. They have demanded a "key escrow" scheme in which users of encryption devices would be required to deposit a descrambling key with a trusted third party. That key could be obtained by US authorities under court order, in much the same way that law enforcement agen-

Menem throws down labour gauntlet

tine labour demand. Ms Pes-

sino believes that, given the

right circumstances, Argen-tina should be able to cut

unemployment to single dig-

its, although she warns the

Mr Menem, who promised to "pulverise" unemploy-

ment in his second term, is

due to send his labour bill to

parliament next week. New

legislation will enable

employers to negotiate

labour contracts at company

level, reducing the power of

unions to fix wages and con-

ditions on a nationwide

According to a recent job demarcation, holidays

This will give compa-

nies greater control

over working hours,

process will take years.

Job creation

(% change, 1992-95)

ware. Law enforcement and struggled to resolve these opposing interests for the past four years. Previous proposals have been rejected by the industry as unworkable and inadequate. Privacy advocates have also raised objections to the key escrow plan, which they claim could be amused.

Under the administration's new proposal, the strength of encryption software that could be exported has been raised from 40-bits to 56-bits. The number of bits defines the strength of an encryp- administration has got it

Unemployment rate

Argentina

** Before the reduction of 1996, now 41% on average

compensated for hy time in

lieu. Currently, the working

will replace statutory notice

and severance pay with

accounts for each worker.

which would be drawn on in the case of dismissal. Tha

aim is to lower employer

costs, so funds built up in

individual capitalisation

accounts would tend to he

less than current severance

payments. Under current

legislation, according to Ms

Pessino, employers can end

up paying four months wages to a dismissed

employee of only three

Union representatives, not

surprisingly, see the pro-

posed changes as an attack

on workers' rights, as well

months' standing.

Another part of the bill

day is set at eight hours.

long it might take to decrypt a scrambled message.

companies would also be given greater latitude in finding ways to enable law enforcement authorities to descramble electronic data transmissions.

Although the plan is a compromise, it does not please all parties.

Mr Jim Barksdale, chief executive of Netscape Communications, the leading Internet software company. said it would not work. "The

will do nothing to solve

unemployment," says Mr

Gerardo Martinez, former

general-secretary of the CGT

union federation. Making it

easier to fire workers might

actually increase unemploy-

the real purpose of legisla-tion is to lower wagss.

Because of Argentina's mon-

etary system, which effec-

tively prohibits devaluation,

one of the routes to greater

competitiveness is salary reduction. "The World Bank

is trying to produce deflation

of wages and prices at the

expense of the working

class," says Mr Carlos West

Ocampo, chief spokesman

reform inside the Peropist

party, where some legisla-

tors are union representa-

tives. Given Mr Menem's low

popularity and the approach

of mid-term parliamentary

elections in 1997, it is not

certain he can rally his

increasingly undisciplined

Mr Menem rejects sugges

tions he has lost political

authority. "It is President

Menem who runs this coun-

I am stronger than ever."

party to back reform.

There is also opposition to

Many observers suspect

ment, he says.

for the CGT.

permission to tap phone tion algorithm which, in practice, determines how the White House has long it might take to decrypt to the said overseas, he said overseas," he said.

Demonstrating their disil-Software and computer lusionment with the Clinton administration over the encryption issue. Mr Barksdale and several other Silicon Valley axscutives endorsed Mr Bob Dole, the Republican presidential candidate, at a rally held at Netscape on Monday.

> "The administration's pro posal represents progress...vet further liberalisa tion will be needed," said Mr Robert Holleyman, president of tha Business Software Alliancs, an industry group.

\$1bn. Exxon of the US owns **US** index the remainder. The government plans to separate the mine, for which of key it will grant a concession until 2026, from the transport operation and sell the indicators two separately. "We are counting on having that transaction finished by midhits high 1997," the minister said.

This, with other coal from new areas being offered by the government, could raise Colombia's production to 40m tonnes a year hy 2005, from 21m tonnes now. This would see it become the third largest coal exporter. Other sales include the

complete next year.

The Conference Board government's 47 per cent reported that the index rose stake in the Cerro Matoso ment hands. 1.7 per cent in the six months to Angust, indicat-

ing the economy was likely to expand steadily well into next year. The index is designed to give six to nine months' warning of turning points in economic activity. The group said seven of the 11 components of the leading index rose in

The US index of leading

indicators rose 0.2 per cent in August to 103.3, its high-

est ever level, a business

analysis group said yester-

day, writes Michael Prowse

in Washington.

Angust. Separately, the national association of purchasing managers said its index of mannfacturing activity declined modestly to 51.7 per cent in Angust, from 52.6 per cent in July. Readings above 50 per cent indi-cate expansion of the manu-

try, not the unions," he says. The drop in the index reflected declines in indices In seeking radical labour measuring the growth of reform, the president has production and employment. found the perfect vehicle to However, an index of new test whether or not such orders rose for the second consecutive month to 56.3

tyres · power and telecom systems

facturing sector.

By Stephen Fidler. nickel mine, producing an annual 1.6m lbs of nickel, Latin America Editor which is operated by Gencor. ths majority shareholder. The Colombian government expects to raise \$2.5bn-\$8bn The government intends to from a series of mining and extend this concession energy privatisations and beyond 2008 for at least concessions it expects to

another 15 years. The government also aims Mr Rodrigo Villamizar, minister of mines and to have privatised seven electricity generating plants by the first quarter of next energy, said in London yesyear. They would account for about 20 per cent of terday that the sales included a 50 per cent stake national capacity and their in El Cerrejón, the largest open cast coal mina in the minimum value had heen world, which could raise assessed at \$1.05bn, Mr Vil-

lamizar said. The government was "seriously considering" privatising in the first half of next year the Bogota and Atlantic Coast electricity distribution companies, which together serve 10.5m people. To do this the giant Guavio plant would be separated from the Bogotá company and, because of its heavy debts which make a sale difficult,

sion to a private operator. The government is also proposing to offer exclusive distribution rights for gas in six areas of the country. with the transportation system remaining in govern-

would be offered in conces-

Sandinistas give investor pledge

The Sandinista Front has promised to embrace the free market if it wins Nicaragua's presidential election on October 20, Reuter reports from Managua.

Polls show Mr Daniel Ortega, the former left-wing president and Sandinista candidate, chipping away at ths lead of Mr Arnoldo Aleman, from the right-wing Liberal Alliance. The two candidates were virtually level in the latest polls. A field of 22 other candi-

dates trails badly. If no one receives at least 45 per cent of the vote, a second round

"A Sandinista government will obey the rules of tha free market and give foreign investors a warm welcome, Mr Alvaro Fiallos, Sandinista campaign manager, said.

A Sandinista government would also continue the International Monetary Fund's tough structural adjustment programme, although seeking better conditions in some areas, and would welcome foreign assembly plants in its freetrade zone.

Nicaraguan business leaders have warned of negative economic consequences if the Sandinistas won.

10 per cent reduction in plans, for instance, to allow as on their own power base. self-confidence is merited. Argentina's payroll taxes, per cent against 55.6 per between the two front-runlabour costs would produce a working day of np to 12 "They will bring job inse-David Pilling among the highest in the a 5 per cent rise in Argen-hours in peak periods, to be curity, greater poverty and ners will be held.



Rail bids from

Spain and US

Six companies, including a Spanish rail freight operator, a

US financing group and a UK electricity generator have

been shortlisted in the bidding for Railfreight Distribu-

tion. RfD is the last of the freight businesses in Britain's

RfD, which is heavily loss-making, runs international

freight services through the Channel tunnel between the

UK and destinations in Spain, France, Germany and Italy.

Currently a division of British Rail, it is due to be estab-

lished as a separate company within the next two weeks

The companies on the shortlist are: Transfesa, a Span-

US finance and leasing group; National Power, an electric

ish-based international rail freight group; GE Capital, a

ity generator which recently established a domestic rail

freight business; English Welsh and Scottish Railway,

BR's heavy freight division which was acquired by Wis-

consin Central Transportation of the US; Freightliner,

Backlog may total 400,000

ment's programme to curb BSE, or mad cow dise appears to be as high as 400,000, in line with the bleakest industry predictions.

The British government last week refused to reveal the

"MAD COW" SLAUGHTER

findings suggest, at around 400,000.

destroyed since May.

tion target of 21/4 per cent.

World Bank in Washington yesterday,

■ ECONOMY

BR's domestic container business which has been bought

by its management; and Tibbett & Britten, a distribution

The backlog of cows awaiting slaughter under the govern-

figures disclosed by its own survey of the country's farmers, saying it did not find them credible. But officials said yesterday they were taking steps to speed up the slaughter in case the backlog proves as high as the preliminary

Farmers' leaders and meat industry representatives

have warned for some months that the backlog was far

larger than the government's estimats of up to 180,000. The scheme was designed by the government to restore

confidence in beef by removing cattle over 30 months old

from the food chain. More than half a million have been

Chancellor upbeat on inflation

Mr Kenneth Clarke, chancellor of the exchequer, insisted

by 3% per cent next year without jeopardising his infla-

resterday that the British economy was on course to grow

"I believe we can go on delivering above trend growth

wer several years, as we close the ontpnt gap, without

inflation re-emerging," he said, in a speech to the annual

neetings of the International Monetary Fund and the

M.

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and the sale is planned for completion early next year.

state rail network to be sold to the private sector.

UK NEWS DIGEST

Financial Times Reporters in Paris and London

Rover Group, the Britisb offshoot of BMW, is to invest £400m (\$620m) in a successor to tha Mini, the small British car which has become a motoring icon to millions over oearly four decades.

Dr Walter Hasselkus, Rover's oew chief executive. confirmed vesterday that BMW's and Rover's agooy of indecision over whether tha Mini could, or even should, be replaced is over. An allnew design will enter the world's car sbowrooms somewhere around the year

The 1.4-litre four-cylinder power unit for the new ect, with design work being model will be made in a fac- undertaken at Rover's new tory to be huilt in South engineering centre at Gay-America under a \$500m joint don in the English Midlands.

Mr John Major, the prime

minister, last night faced growing demands to co-oper-

ate fully with a parliamen-

tary investigation into cash-

for-questions accusations

against Mr Neil Hamilton, a

former trade minister in his

against the Guardian news-

paper on Monday, said he

was now taking the case to

Sir Gordon Downey, the Par-

liamentary Commissioner for Standards, to clear his

Mr Hamilton, accused by

the newspaper of receiving

money to ask parliamentary

questions, had promised to

expose journalistic "corrup-

tion and fantasy" in the

Mr Hamilton, who with-

Premier urged

MP's actions

to aid probe into

Nissan to invest \$110m on boosting Primera output in England

Nissan, the Japaneae carmaker, yesterday said it would invest a further £70m (\$110m) in its plant near Sunderland in north-east England to build an estate version of its Primera family model. Haia Simonian writes.

The new vehicle, which will replace a model imported from Japan, should create 150 jobs at Sunderland and boost car output by 20,000 units a year motor show, he said: "It's my personal made till 1997.

venture, announced at the The car will almost almost between BMW and Chrysler. the third-largest vehicle maker in the US.

However the car remains an essentially British proj-

ton dropped the action. He

and his fellow litigant - Mr

Ian Greer, a political lobby-

ist - agreed to pay jointly

£15.000 (\$23.400) of the

maintained their "total inno-

cence" and said they

dropped the libel case

because the legal costs were

yesterday's move by Mr

Hamilton as the "final act of

Lord Nolan, chairman of

damaging to the reputation

Mr Alan Rusbridger, editor

Mr Hamilton and Mr Greer

Guardian's costs.

escalating.

bluff".

drew from a libel suit of the Guardian, dismissed

when production starts in 1998, said opinion that a third model should be Mr Yoshikazu Hanawa, Nissan's presi-

Mr Hanawa, who took over the top at Sunderland should be further boosted by a third vehicle range alongside the current Primera and Micra models. In an interview at the Paris and an announcement would not be

rival contender.

BMW had hoped to

announce the engine plant's

Longbridge, the "home" of

the existing Mini near Bir-

as Dr Bernd Pischetsrieder,

BMW's chairman, delivered

another vote of confidence in

the UK industry. He said at

the Paris motor abow that a

News of the project came

mingham.

manufactured in the UK". The idea of a third model, expected to be a compact family saloon in the job this year, said he believed output Ford Escort class, has been studied for some time.

However, Mr Hanawa warned that Nissan had not yet reached a decision

new £400m-£450m plant to location yesterday at the Paris motor show yesterday, certainly be made at nearby produce another type of same time as revealing it engine to supply both BMW had agreed with Chrysler to and Rover will be located in set up the joint venture in the UK, provided the British South America. Around half government can roughly the 400,000 angines to be match the investment ald made annually by the South American venture will be expected from Austria, the

used in the new Mini. While production of the new Mini will mainly help secure existing jobs for the 16.000-strong work force at Longbridge, Dr Hasselkus said the project would create "several thousand" jobs among UK-based compo-

nents suppliers.
"I hope today's news will end speculation that the Mini could be built anywhere other than in the UK. This is yat more evidence of BMW's confidence in Rover," he added.

Its introduction will also be the subject of enormous interest in Japan, where the current Mini has become a cult, with several magazines devoted specifically to it. Indeed, Japan is the world's single largest market for the current car, accounting for 8,000 of the 20,000 produced last year, compared with 6,000 sales in the UK.

of traditional heavy industry, yester- which, it is hoped, will eventually cre- Bay. The promoters of the "park" day launched a £230m (\$360m) regen ate more than 3,000 jobs. The main apeak of Port Talbot becoming the eration strategy, Roland Adburgham feature of the 10-year strategy will be "green industrial town of Europe".

Port Talbot, a steel town which writes in Cardiff. The aim is to attract a 270-ha "energy park" next to the BP

symbolises the decline in south Wales a wave of "green" inward investment Chemicals' plant (above) at Bagian

Cardinal urges IRA ceasefire

By John Murray Brown

the Committee on Standards in Public Life, backed the Politicians and church idea of an inquiry by Sir leaders on both sides of Northern Ireland's sectarian Gordon into what he called "serious" allegations against divide yesterday stepped up Mr Hamilton: "The continupressure on the Irish Repubing accusations and counter lican Army to reinstate its accusations in this case are ceasefire.

Their efforts came amid mounting concern of a resumption of Protestant violence after a group of said.

anti-nationalist "loyalist" prisoners indicated it would rent peace talks,

Cardinal Cahal Daly, the Roman Catholic Primate of all Ireland, yesterday seized urge the IRA to reinstate its ceasefire. "No single thing would do more at this time to restore hope and lessen division in our society," he

Mr Seamus Mallon, deputy leader of the constitutional no longer support the curnationalist Social Demo-rent peace talks. (SDLP), said in Belfast that the disaffection of the loyalists was a "serious situation, on the loyalists' warning to a potential threat to the peace process. I believe the IRA have it in their power to ensure that the apprehen-

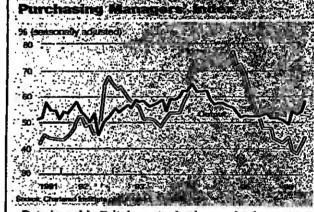
sion in the community

recedes and that the peace

process can be built on."

The prisoners were vital in securing a loyalist ceasefire in October 1994, a few weeks after the historic IRA move which set the peace process in train.

The Ulster Democratic party, the political wing of the Ulster Defence Association, the largest of the outlawed Protestant groups, said it was trying to persuade the paramilitaries to



Data issued in Britain yesterday by purchasing managers gave little hint that inflationary pressures were imminent. They reported the sharpest monthly increase in output in September for two years.

The increase will be welcomed by manufacturers, who have seen patchy trading conditions in recent months. But it is also likely to further limit Mr Clarke's scope for cutting interest rates.

Traders in sterling futures contracts, which are used to bet on the future level of interest rates, now expect base rates to be raised to almost 7 per cent by the end of next year from their current level of 5.75 per cent, to curb infla tionary pressures.

ROYAL MAIL

'Alternative' service on trial

Securicor Omega Express, the leading UK express parcels operator, began a trial of its first business postal delivery service yesterday. It said its aim was "to launch an alternative postal service in the event of the Royal Mail monopoly being permanently lifted". The government has threatened to remove the monopoly held by the Royal Mail offshoot of the Post Office as mail workers continue their series of strikes.

The trial will run in the cities of Birmingham and Menchester for a week. Securicor Omega Express is the UK's largest overnight parcels carrier. It delivers over 2m parcels a week.

■ ARGENTINE CONTRACT

\$155m joint venture for port.

A joint venture between Rolls-Royce's materials handling business, Clarke Chapman, and Portia Management, the consulting division of Mersey Docks and Harbour Com. pany, has won a £100m (\$155m) contract to operate, maintain and develop a port facility for Siderar SAIC, the leading Argentinian steelmaker. The facility at San Nicolas on the River Parana 150 km north of Buenos Aires, comprises a bulk import terminal and steel products export

of Parliament and the truth courts, But on Monday, the day before the case was due of the matter needs to be in the High Court, Mr Hamilproperly investigated." Labour party conference: Delegates encouraged by support from EU leaders EXPRESS PARK 100 ACRES

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Leader calls for 'age of achievement' By John Kampfner, in Blackpool

Mr Tony Blair, leader of the opposition Labour party. vesterday called for an "age of achievement" with Britain as "the skill superpower of the world". He was speaking at his party's last policymaking conference before the general election which must be held by May next year at the latest.

Opinion polls consistently indicate that Labour, out of power since its defeat by the Thatcher-led Conservatives in 1979, will be victorious. The mood among delegates

ments. In what aides to Mr John

Major, the prime minister, acknowledged was a diplomatic snub. Mr Wim Kok. Dutch prime minister; Mr Franz Vranitsky, Austrian chancellor; and Mr Antonio Guterres, Portuguese prime minister; suggested Europe was waiting for a Labour Speaking in a video

at yesterday's gathering was

euphoric. They had been that cares. For that we need that Labour was both radical buoyed earlier in the day a British Labour government and safe. The most striking Britain.

Major said: "The British govthe view that it would never do or say anything that would interfere with another country's electoral process. Other governments and leaders of pobtical parties must answer for themselves." Mr Blair's bravura perfor-

recording, Mr Guterres said; in mind. He wanted to per-"We need a European Union suade the British electorate

when Mr Blair received with you, Tony, as its prime aspect of the speech was Mr To resounding applause, enthusiastic endorsement minister." Each leader Blair's commitment to a fivefrom the haads of three recited the mantra: "New year "covenant with the because Britain cannot be a European Union govern- Labour, New Life for British people". leading player in Europe Mr Robin Cook, the

A spokesman for Mr John Labour party's shadow foreign secretary; reinforced his ernment has always taken party's commitment to sign the European-Union's Social Chapter on workers' rights. giving a firm undertaking would do so, James Blitz writes

a Labour government to join mance had several audiences by January 1:1998 because it would also be the moment at which the UK took up the Editorial Comment, Page 13

Union.

presidency of the European

when it is lagging behind everyone else in Europe." He argued that, without signing up to the social chapter, British employees would continue trying to find work in other EU countries where that a Labour government they enjoy "more rights than If they had stayed in Britain". Mr Cook bitingly He said it was essential for described the Conservative party's attitude to Europe as

"crude jingoism".

Military helicopter training goes private

A private-sector consortium has been chosen to set up and run a common training school for helicopter pilots in the Army, Royal Air Force and Royal Navy. The contract, worth more than

£400m (\$625m) over 15 years, will be four times the size of the largest contract previously awarded by the Ministry of Defence under the British government's Private Finance Initiative, which aims to attract private funds for public projects.

The preferred bidder, announced yesterday by the ministry, is FBS Limited, a partnership comprising FR Aviation (part of Cobham), SERCo and Bristow Helicopter

East London Line

· · · · Other rall lines

supplying and maintaining 47 helicopters, and operating and staffing a school which will train 230 crew members a year.

the Belfast subsidiary of Canadian aerospace group Bombardier, and from a consortium comprising Hunting Aviation and Bond Helicopters, were rejected.

The contract with FBS is expected to be signed within weeks. Mr Nicholas Soames, the armed forces minister, said creation of the school would improve pilot training and help win taxpayers better value for money. Over the life of the contract, trans-

ferring training to the private sector is expected to save 277m. Of that, for operational training.

ewisham 2000

Group. FBS will be responsible for more than £50m will be achieved by replacing old aircraft with new ing was launched because of the machines that are cheaper to operate and maintain.

The services have used 79 Gazelle Rival bids from Short Brothers, and Wessex belicopters, all over 20 helicopters such as the Westland years old, for basic training. To undertake the same function. FBS will huy 38 Squirrel single-engined aircraft from Eurocopter - a joint venture between Aérospatiale of France and Daimler Benz Aerospace of Germany - and nine twin-engined Bell 412EP aircraft from Bell Helicopter of Canada. Three of the Bell aircraft will be based at an RAF base in Wales to provide advanced search and-rescue training. Graduates of the school will return to the services

A review of basic helicopter trainneed to replace existing training aircraft, and the approaching entry into service of more modern operational EH101 and the McDonnell Douglas Anache attack helicopter. According to defence officials, con-

tracting out the operation proved cheaper than three alternative options studied, under which the services would have retained responsibility for the training. The school will remain under the

nominal charge of a military officer. In addition to training pilots for the UK armed forces, it will train about 10 pilots from other countries each

BRIDGE VERSON RD Docklands Light Rallwin www.Jubilee Line extension

Risk is shared on London light railway Taxpayers will be shielded from the cost of avoiding another Docklands fiasco.

way (DLR) will start running under the river Thames to Greenwich and Lewisham in south-east London. If the ser-£220m (\$343m) project, the costs will be met by the con-

The British government's environment department, open-ended financial comwhich is ultimately responsible for regenerating the avoid the flasco which wich Lewisham Rail Link railway network north of the week awarded a 25-year conriver. The DLR was once a cession to build and mainbyword for unreliability and tain the 5km extension to

struction consortium, not

the government was forced. Lewisham town centre. The been a sharp increase in the antee which has been less trains of the to intervene, wresting conconsortium, consisting of the
Docklands Light Railtrol from London Transport.
John Mowlem construction trol from London Transport. which also runs the capital's buses and Underground rail-

Government officials vice fails to start on time, or believe that by financing the any other mishap befalls the Lewisham extension as part of the government's private finance initiative - which insists on risk being transferred to the private sector where possible - an

mitment has been avoided. The result has been to London, was determined to standards on the City Greenengulied the original light consortium which was last

John Mowlem construction group; Hyder Investments. part of the Welsh utility; London Electricity; and Mitsui UK will not operate the trains but will recoup the construction and maintenance costs by renting the line to the DLR and also by

on passenger numbers. If the CGL Rail consortium does not keep the stations on the line clean, well-lit and safe, or if technical failures Docklands district in east impose tight performanca delay the trains, then passengers are unlikely to use the line and its earnings will

levying a fee which depends

be hit The result of transferring these risks from the taxpayer to the consortium has

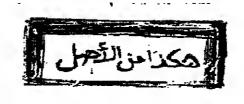
cost of the project. Initially. estimated at between £110m and £130m, it has finally emerged at more than

But if the project is not derailed by unexpected problems - tunnelling is notoriously uncertain - it could prove a money-spinner for the winning consortium. Forecasts indicate that the Lewisham extension will account for more than half of total DLR revennes. This optimistic financial

scenario bas enabled the consortium's merchant bankers, BZW, to arrange an A' rated £165m bond issue without the need for "credit enhancement," a form of additional third party guarrequired on previous bond issues under the government's private finance initia-

The financial package also consists of a £50m government grant, a £5.8m contrihntion from Lewisham council and £4.4m from Greenwich to help fund the expensive underground station at Cutty Sark. The package which has been agreed, while expensive, should deliver a railway which can exploit tha full commuter and tourist potential of the line. It will also be the first test of the application of tight financial disciplines to the rail construction sector.

Charles Batchelor



BUSINESS AND THE ENVIRONMENT

Tom Mead on a potential replacement for satellites and Sarah Althaus (below) on the first truly sun-propelled glider

Solar power takes flight

the brilliant light and brutal cold 12 miles up, flights of in four or five years, assume some functions of conventional

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ring wingtip-to-wingtip in and 68,000ft. By contrast, a typi-like V formations, they will cal aircraft flies at ebout 35,000ft Flying wingtip-to-wingtip in wheel through five-mile wide circles above major cities and serve as platforms for wireless communications. Each aircraft may stay aloft for months at a time, but the black V-formation may fly indefinitely.

The key to the idea is the formation. "The aerodynamics of formation flying have been known for years," says Professor Jason Speyer of the School of Engineering and Applied Science at the University of California, Los Angeles (UCLA). "When geese fly in formation, when they are gliding, each bird takes advantage of the nowash coming off the hird in front to reduce its

Formation flight can produce a 50 per cent reduction in tha

n aircraft called partly after a fated figure in Grack mythology and flown hy a pilot nicknamed Micro might seem an unlikely combination to achieve what has been hailed as "a milestone in aviation history".

But this summer Werner Scholz made history when he touched down at a small German airbase to land Icaré, the first motor glider powered by solar energy alone. In 1993, 40 international teams had registered for Germany's respected Berblinger aviation competition to build such an aircraft. But on the big day almost three years later. only five presented their models. and only Icaré made it into the

The world's most advanced solar aircraft had remained true to the "re" in its name, taken from the Egyptian sun god, rather than Icarus, the mythological figure who plunged to his death after flying too close to the

Icaré's flight points the way to the use of solar-powered aircraft as remote-controlled platforms monitoring the weather and

flight. By emulating nature and costs; they represent less poten-taking advantage of the energy-tial damage to the atmosphere by conserving upwash effect used by black, solarpowered, unengine in each ultralight aircraft
in the formation would need to
light aircraft may,
produce only about 1% horsepower to maintain a continuous flight speed of about 100ft a second (68 mph) at between 63,000

> "In formation flight, the geese perform much like a single larger wing," says Speyer. "We hope to accomplish the same thing with the unmanned air vehicle, except that the aircraft would do it autonomously and stay aloft for weeks, months, or longer."

and 600 miles an hour.

Operating without ordinary fuel, human guidance, or the need to land, the formations will function as platforms for the microwave repeaters used in cellular phone, pager and wireless computer communications. They may also carry highly accurate sensors for environmental or atmospheric studies.

systems offer several advantages and graphite-epoxy ribs covered

using a lorry instead of a booster rocket for launch; and they require less powerful, less expensive transmitters. Also, compared tn a satellite, it would be easier and cheaper to repair them or update the payload.

A prototype unmanned air vehicle has been designed and built by a Rockwell unit, now being purchased by Boeing and UCLA engineers in partnership with Nasa, the US space agency. Advanced technologies in ultralight materials, solar cells, and hattery chemistries bave been used to huild it. The protolype weighs between 125th and 150th. hut final designs call for an 85lb vehicle with solar cells covering 90 per cent of the wing surface.

The aircraft are a combination of elegance and ungainliness, clearly reflecting the principle that form follows function. A long, tubular fuselage - with the diameter of a coffee can - is attached to and suspended below the 43ft tip-to-tip wingspan. This High-altitude communications is constructed of tuhular spars over space-based systems. They with a grey-white mylar, an spans) of the smaller craft makes

A payload compartment capable of carrying about 20lb of allow a damaged craft to he equipment is mounted on the fuselage below the centre of the wingspan. A "push" propeller is mounted aft of the inverted V tail, powered by black photovoltaic panels. These allow the craft to fly in formation under the direct power of sunlight

while simultaneously recharging

the batteries for night flight.

The first flight of the prototype is due to take place later this month in the Mojave desert of southern California. Later, five more craft will be built. The six aircraft will then he used to achieve three goals: autonomous formation flight, high-altitude formation flying, and then solarpowered formation flying - raising the possibility of eternal flight. The creation of a flying system which uses several smaller aircraft to function as one larger aircraft produces three main advantages. First, a large aerodynamic aspect ratio (a large wing) makes the many-acting-asone configuration an efficient flier. Second, the smaller structural aspect ratio (smaller wing-

energy required for continuous present dramatically lower initial extremely tough synthetic fabric. them easier to build. Third, huilt-in fail-safe systems will replaced without grounding the entire V array or terminating its functions.

There still remains the problem of control, and making five independent aircraft perform as one cohesive, collaborative unit.

Even in the extraordinarily thin and turbulence-free atmosphere at 65,000ft, formation flight is inherently unstable without an active control system. Several systems will be used in order to overcome the instability. Information from air-data sen-

sors, an inertial measurement unit, infrared ranging sensors and signals picked up from the satellite-based Global Positioning System will control the relative position of each aircraft in the formation to within lin of optimum spacing. The aileron and flap control

surfaces which control ordinary aircraft will be replaced by an actuator, which will twist the end third of each wing lo maintain serodynamic control. "That." adds Speyer, "is the same used at Kitty Hawk."



technique the Wright brothers Under the wing of the prototype unmanned air vehicle, at UCLA

Aircraft rises with the sun

environmental trends. Indeed, experts believe that in the next decade, solar aircraft will be able to fly for weeks on end at altitudes of up to 20km, a cheaper and polintion-free alternative to satellites.

"For sure, there bave been other solar aircraft," says Rudolf Voit-Nitschmann, head of the 40strong Icaré team from Stuttgart University's department of aviation construction. "But these were lightweight, bighly risky innovations which required lots of luck and which weren't pow-

ered by solar energy alone."

Aircraft such as Paul McCready's Solar Challenger, which crossed the Channel in 1981; Bric Raymond's Sunseeker, which flew across the US in 1990; and Gnenther Rochelt's German model, Solair 1, relied mostly on thermals (rising warm air currents) and not solar energy to maintain altitude, says Voit-Nitschmann.

They did not have to fulfil the

strict airworthiness requirements stipulated by the Berblinger committee. "We are the first reliabla solar-powered motor glider." he claims.

One criterion was that the aircraft should be able to take off on its own and reach an altitude of 450m at an average vertical speed of 2m a second. Previous solar aircraft were either towed aloft by fossil-fuelled aircraft or climbed unassisted at a more gradual speed of between 25cm

A solar-powered generator and 384 standard nickel cadmium batteries boost Icaré's engine for take-off. The engine, designed by the University of Braunschweig in northern Germany, is an achievement in itself. It can deliver 12kw of power hut weighs only 15kg, abonl a fifth of the weight of a normal engine with that output.

Once Icaré has reached about 450m, the batteries are empty

and it is all down to the 3,000 super-efficient photovoltaic cells which cover the plane's tail sur-

faces and 25m wingspan. The cells, measuring 10 sq cm each, are conventional singlelayer silicon cells, with a total depth of about 350 microns (0.35mm) and efficiency rate of 17 per cent. That means that 17 per cent of the light energy falling on their surface can be transformed into electricity. The electricity powers Icaré's engine

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which in turn drives a single propeller. Recent technology has meant

there are cells on the market with as much as 24 per cent efficiency. Bot they tend to be far smaller and mncb more expensive. "Those kind of cells would have required about four times as much wiring, and even a percentage point more efficiency would have doubled our costs, says Voit-Nitschmann. As it was, the cells cost about DM150,000 (£65,200) in total.

The next problem was bow to fix the highly fragile cells to Icare's wings and ensure they could withstand strong vibrations. "We found the answer in a technique used by solar-assisted rally cars in Australia - we used a flexible polyester lamination," says Voit-Nitschmann.

A further criterion was that Icaré should be able to fly on as little as 500W of solar energy per square metre. That would enable it to fly in winter as well as on energy.

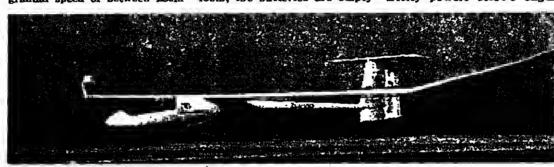
sonny summer days when up to 1,000W per square metre can be

Icaré's sturdy structure and crasb capabilities also set it apart from previous solar aircraft. In Voit-Nitschmann's words, the additional weight factor meant that bitherto "a solar flight was bordering on lbe impossible". Icaré weighs a total of 265kg, with the pilot Scholz adding another 90kg. This is pretty befty when compared with the 48kg pilot in the 92kg Solar Chailenger. The German aircraft's overall weight includes

a 10kg rescue paracbute. Daimler-Benz, the German industrial group, and the regional state government footed most of the DM1.4m bill for the Icaré project.

However. Voit-Nitschmann says the final figure would bave been closer to DM500m if Icaré bad been built by an aviation construction company rather than with the help of students and the university's engineering facilities.

This concludes the series on solar



fearé takes to the skies unassisted by other aircraft, the first solar-powered gilder to manage this feat



The Business Travel Survey will be published with the Financial Times on Monday, October 7. The 12 page survey examines direct booking as an alternative to using dedicated business travel agents, advises the frequent fiver on how to get the most from the programmes on offer and assesses whether first class is really worth the premium.

There will also be advice on selecting hotels, changing currency costeffectively and how to avoid becoming a victim of crime. So, if you want to upgrade your business travel knowledge. Financial Times. Norld Business Newspaper. check out Monday's FT.



ha dated 10 October 1998 and will be in the following ECU 200 million for maturity on 14 November 1996. ECU 500 million for maturity on 16 January 1997.

ECU 300 million for maturity on 10 April 1997.

3. All tendars must be made on the printed application forms available on request from the Bank of England. Completed application forms must be lodged, by hand, at the Bank of England, Customer Settlemant Sarvices, Threadneedle Street, London nol latar than 10.30 a.m., London tima, on Tuesday, 8 October 1996. Payment for Bills allotted will be due on Thursday, 10 October 1996.

2. The ECU 1,000 million of Bills to be issued by lander will

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in multiples of ECU 100,000 nominal.

 Tenders must be made on a yield basis (calculated on the basis of the actual number of days to majurity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered

Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills in global form to their account with ESO, Euroclear or CEDEL, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bills will be available for collection at Customer Settlement Services, Bank of England aftar 1.30 p.m. on Thursday, 10 Octobe 1996 provided cleared funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59005518 with Lloyds Bank Pic, Bank Relations, St George's House, PO Box 787, 6-8 Eastcheap, London EC3M 1LL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 500,000, ECU 1,000,000, ECU 5,000,000 and ECU 10,000,000 nominal.

7. Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more detail in the Information Memorandum on the UK Government ECU Treasury Bill programme issued by the Bank of England on behalf of Har Majesty's Treasury on 28 March 1989, and in supplements to the Information Memorandum. All fenders will be subject to the provisions of the Information Memorandum (as supplemented) and to the provisions of this notice.

9. The ECU 50 million of Bills to be allotted directly to the Bank of England for the account of the Exchange Equalisation Account will be for maturity on 10 April 1997. These Bills may be made available through sale and repurchase transactions to the market makers listed in the Information Memorandum (as supplemented) in order to facilitate settlement.

10. Copies of the Information Memorandum (and supplements to it) may be obtained at the Bank of England. UK Government ECU Treasury Bills are issued under the Treasury Bills Act 1877, the Netional Loans Act 1968 and the Treasury Bills Regulations 1968 as amended.

Bank of England 1 October 1996

Born leader.

Commission in a second second

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ocus, the South African car-

rent affairs programme, weot to Lihya on Monday night. Like many other jour-

friends. (There is a standing invitation

for Gaddafi to visit Sonth Africa.) So.

the viewers were told, the man described by the US as a "mad dog" was a also "charismatic leader with a

vision of the future based on his pure

revolution". Not only this, but the

majority of Libyans had henefitted

ecormously from Gaddafi's economic

policies for uplifting the poor and sup-

pressing the rich, a theme that goes down well in the oew South Africa.

ambassador explained the problems of

simultaneously looking after so many

Back in the studio, the Libyan

Television in South Africa/Roger Matthews

emocracy – in many tongues

nalists bafore, the white, reporter found it tough going. Despite having been promised unrival-led access to Colonel Mnammar Gaddafi, like many before her, she was journalists, before moving on swiftly shepherded around in a group, and did not talk to anyone other than minor to the crisis in Palestine. The solution was at hand, he declared. How? By officials disguised as ordinary citizens. following the successful South African Sbe ended np, like many before ber, model, of coarse. There should be free, democratic elections throughout the interviewing some of the the other 200 journalists oo the trip.
They provided a little balance to the land of Palestina, including, of course, that bit which is called the Zionist report, the tope of which had been set entity by some, but Israel by the at the outset with a clip of President majority. To those without much knowledge of the Middle East it proba-bly sounded eminently sensible. Nelson Mandela promising that his government would never desert its

it was almost as plausible as Jane. Seymour overcoming anti-Semitism in the Wild West, the theme of the programme which immediately preceded Focus. Dr Quinn, Medicine Womon, played by Seymour, is the American West's female answer to Mandela, She is imbued with the desire to heal physical and moral ailments. So when a Jewish trader comes to town, baving escaped persecution in Europe, it is left to Seymour to save him from a similar fate at the hands of her fellow citizens. "It will take time, but they will come round. They are good people

at heart". It could have been Mandela speaking. But even the world's most-loved politician would have baufied at the ending. After a moment of 2 vio-lence, the entire town underwent a Damascene conversion, and the local newspaper publisher gave the www.sb trader a free subscription. But such optimistic nonser

But such optimistic nonsenses per-haps e necessary antidote to the hard reality of bolding np a mirror to the nation, the declared policy of the revemped Sonth African Bro Corporation. Having in the days only broadcast oationally, kaans and English, the SABC three channels are now trip accommodate all 11 official lange Some are only managing 10 miday, and elsewhere questions posed in one language, and in another, with no assistance by way of sub-titles. Television age of parliament shows minist viding single word answ unknown questions. But at le or Xhosa speakers now know

tins thay can understand, although only up to a point. If they were inter-ested in the details of South Africa's cricket victory over Pakistan they are still expected to understand English.

port is supposed to be South Africa's greatest force for racial raconciliation since Mandela wore a No 6-rugby shirt to eocourage the national team to victory over New Zealand in the world cun final last year. Perversely, not a single non-white rugby player has since appeared for Sonth Africa, and several cabinet members, especially Trevor Manuel, the minister of finance, once again cheer for the epposing team. But television's overall commitment to sporting coverage is undiminished. The problem for SABC, like other public broadcasters, is finding the funds to compete with pay channels, in this case M-Net. But at least it can count on the support of ministers who are

determined that big national events, especially soccer which better reflects the country's racial balance, will remain available on public broadcast-

If that is one reflection of a national reoccupation, oews and discussion programmes present a series of others. South African television can both sur-prise with the good humour that painful issues are sometimes discussed and repel with the intimate coverage of the worst violence. A gangster, shot and then set alight by vigilantes in a Cape Town suburb, is shown in close-up staggering along the street till ha dies. A man in a wheelchair is filmed in his Johannesburg house. looking down at the body of a burglar he shot dead. The bearings of the Truth and Reconciliation Commission, which are supposed to bind the wounds of the past by opening them to the public gaze, fill screens nightly with tales of the most appalling violence and suffering. Democracy has freed the hands of

as Quentin Tarantino's Reservoir Dogs or Oliver Stone's Natural Born Killers, which in Britain have had problems getting released or being given a video licence, have been shown uncut on M-Net, along with a weekly offering of soft porn. But in other areas nothing has changed, the most resistant of all being the weather forecast.

Night after night, what appears to be the same satellite images of swirling clouds advance and retreat across the nation without explanation. Meanwhile a disembodied voice, reminiscent of a BBC appounce in the 1950s, intones that maritime airs will increase off the western Cape and there will be a 20 per cent chance of precipitation on the northern coast of KwaZulu-Natal. It must be of some reassurance to those who fear too much is changing too quickly.

For others on Monday night who wanted more solid evidence of black and white harmony, it was necessary to switch across to live coverage of English specer, and Newcastle United against Aston Villa. The most famous British carriers of those colours triumphed 4-3, and black men scored most of the goals. Which is just how the majority of South Africans

Theatre

Kemp's camp mime to music

indsay Kemp is law unto himself. It could be argued that be is a throwback to an age of more florid, more classical mime performance light years removed from today's physical theatre; one might, in contrast, cite the grandiloquent campery of his work as evidence that he would have been an outsider in any period.

He has, however, heen largely devoid of appreciatioo in his native land, outside of a sprinkling of devo-tees. Kemp's first UK-based show in two decades, then, was always going to be an eveot of sorts; and the peeling, de trop décor of the Hackney Empire provides the perfect surroundings for Varièté, a work which pays equal homage to Charlie Chaplin's film The Circus and Georg Büchner's Woyzeck whilst oever letting either reference point cramp Kemp's individual styla.

The story is a straightforward one: simpleton Franz Vogel (Kemp) joins a small travelling carnival show. falls in love with the deaf mute trapeze artist Maria, loses her and murders her. This is to give oothing away. as the opening number of the musical shows Vogel on his way to the gallows, leaving the tale proper to unfold in flasbback thereafter. But. as usual with Kemp, narrative is bardly the most important elemeot.

In what is a first for him, Variété is a more or less through-composed musical. Since the events are set in 1930s Germany. Carlos Miranda's score carries strong Expressionistic overtones. further enhanced by the shifting colour wasbes of Chahine Yavroyan's remarkable lighting designs.

This is not the most digestible kind of music; nor, with erratic acoustics, does it make for great intelligibility - Ernesto Tomasini, as



Nuria Moreno as Maria in 'Variété': for lovers of flamboyant mirrierooted spectacle

the Showman's "wife" La Belle Yvette, has a remarkable voice, but not eveo be can get a high proportioo of the words across. Those lyrics which can be beard are often defiantly simplistic. chiming repeatedly upon the

At root, also, Kemp's performance style is just not my cup of tea. Rather than showing bravery in its rejec-

same basic rhyme.

tioo of moderation and con-temporaneity, it hints to me at an almost sclerotic dog-dog-to be grandly orchestrated the curtain call of the lead matism. Even during the joyous sequence in which Vogel in flying harness and bigbird costume - sets foot for the first time on the high wire, the audience's laughter seemed tinged with indulgence. Kemp's determination

to be seen as the only beget-

ter of the production la visi-

Nuria Moreno.

Put simply, Limit Kemp dedis an acquired tast ication in pursular vision over 35 y are eral countries of 1 own sev-ence OWD deserves enormous and admiration, not appeal to all. Put even more l: lov-

viole

ers of flambovant mimerooted spectacle will love this flamboyant mime-rooted spectacle.

Ian Shuttleworth

At the Hackney Empire, London E8, until October 8 (0181-985-2424), then touring until December 7: Poole, York, Barnstaple, Oxford, Blackpool, Brighton.

First the good news then the bad

Antony Thorncroft talks to Lord Gowrie

man of the Arts Council of England and its wealthy offspring, the Arts Lottary Board, is about to make some talented young people very happy. He has come up with a scheme which will enable up to 30 leading drama and dance schools to offer scholarships to young actors and dancers whose hopes of training are currently dashed by the refusal of their local councils and the department of education to pay their fees. Gowrie expects this to be a three year holding operation, giving the government time to come up with a final solu-tion. The cost, up to £25m, will be met by the lottery.

Not surprisingly, Gowrie is. fan of the lottery. "It has the power to shock, to shake the system by the tail. The ecology of government funding of the arts has been

knocked for six." England will receive £250m rebuild Covent Garden, Sadfrom the lottery this year as ler's Wells, the Royal Court, against its annual grant of £186m. Wonderful, but tha cause of great concern to Gowrie. As a former government minister of the arts he scheme, which will pump is adept at looking at the downside, and the downside is that the Treasury is jealous. It expected the lottery to provide nearer £50m for the arts and so it wants to cut the council's annual grant. Today, Lord Gowrie and his secretary general Mary Allen will make the case for a higher annual grant for 1996-97 while launching the council's 1995-96 annual report.

Gowrie is in the difficult position of a multi millionaire asking for a loan. He is arguing with heritage secretary Virginia Bottomley about the size of next year's grant, and is gloomy. A 23m cut seems inevitable. Against all its promises the government is using tha lottery to reduce its commit-Gowria anticipates a diffi-

ord Gowrie, chair- cult few years for arts companies. "It is a question of getting from here to there". He concedes that in eight years' time the arts in England will be flourishing. "Take Manchester - it will have a new opera house at Salford, a rebuilt Royal Exchange, and the new Hallé hall. The infrastructure in the hig cities will be in place." But in the meantime companies struggle with ris-ing deficits which forces them to avoid adventurous programmes and to freeze

> he deal was that the lottery should be devoted to repairing dilapidated arts buildings - "I could have. spent all the lottery money on that alone" - while the government held the annual grant steady. With the government reneging on the deal Gowria has been adept. less than £55m has actually at widening the scope of lot- been handed over.

and many more cultural institutions, tha council has borrowed from the US the idea of a stabilisation money into arts companies needing a one-off cash injection to secure their future, Later more far reaching schemes will be unveiled to increase access to the arts by tha young, the old, the untried - both as audiences and performers - and to commission works of art, music, plays, atc. Already around £25m of lottary

lottery to provide revenue funding for the arts. That would give the Treasury the excuse to run down the annual grant. He wants the aunual grant maintained as core funding, and lottery

money employed for "evan-

Gowrie does not want tha

to British film making.

gelical work", hailding up the audience for the arts. In the 18 months since the lottery started handing out money Gowrie is pleased with the way that a totally new funding structure is working, although he thinks that there has been unnecessary bureaucracy and delay in the awarding of grants. Delay by the Arts Council in handing over lottery money is as much a contributor to the crisis as frozen levels of subsidy in 1996-97. Over £450m has been allocated from the lottery to almost 800 arts organisations but

The facts speak for them tery spending on the arts. But distribution is being eves. The Arts Council of As well as giving grants to speeded up, and by election time, most Conservative candidates will be able to point to arts lottery projects in their constituencies. Gowrie is sanguine about a change of government. He believes that the leaders of both parties acknowledge the role that the arts play in employ-

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THE REPORT OF THE PARTY OF THE

ment and tourism. Gowria does not believe the arts will get extra lottery money when the Millennium Fund is dishanded at the end of 2000; nor is he confident that the arts will still be getting lottery money in ten years' time. But he is determined to fight the arts' cormoney has been committed ner for the next decade.

Booker short-list announced

he short-list for this year's Booker Prize for Fiction was announced yesterday. The six authors competing for the £20,000 prize are Margaret Atwood for Alias Grace (published by Bloomsbury); Beryl Bainbridge for Every Man for Himself

(Duckworth): Shena Mackay for The Orchard on Fire (Heinemann); Seamus Deane, for Reading in the Dark (Cape); Rohinton Mistry for A Pine Balance (Faber), and Gra-(Picador). The winner will be announced at the Guildhall. London, on October 29.

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CONCERT Konzerthaus Tel: 49-30-203090 Berliner Sinfonie-Orchester: with conductor Michael Schoenwandt and violinist Benjamin Schmid perform works by Mozert and Bruckner; 8pm; Oct 3

perform Kylian's Bella Figura to music by Foss, Pergolesi, Marcello, Vivaldi and Torelli, Van Manen's Kammerballett to music by Karayev, Scarlatti and Caga, and Kylian's Psalmensymphonie to music by Stravinsky; 7.30pm;

Deutsche Oper Berlin Tel:

Nederlands Dans Theater

BORDEAUX

OPERA Grand Théâtre de Bordeaux Tel: 33-56 48 58 54 Armide: by Gluck. Conducted by Marc Minkowski, performed by Les Musiciens du Louvre, Soloists include Mireille Delunsch, Ewa Podles and Françoise Masset: 8pm; Oct 4

BRNO

CONCERT **Brno International Music** Festival Tel: 425 4323 3118 Royal Liverpool Philharmonic Orchestra: with conductor Libor Pesek perform works by Suk. Janácek and Dvorak. Performance et the Janáckovo Divadlo, as part of the 31st Bmo International Music Festival: 8pm; Oct 3

BRUSSELS EXHIBITION

Musée Communal d'ixelles Tel: 32-2-5119084 De vertellingen in prent van Rodolphe Töpffer: de geboorte van het stripverhaal; exhibition devoted to the work of the illustrator and author Rodolphe estampes", the first of which was drawn in 1827, are generally considered to be the forerunners of the (comic) strip; to Nov 3

CHANTILLY

EXHIBITION Musée Condé Tel: 33-44-570800 Jean-Antoina Watteau: exhibition devoted to the French artist Jean-Antolne Watteau (1684-1721) and his followers. The show features four paintings and over thirty drawings by Watteau. Other exhibits includa works by such artists as Nicolas Lancret and Jean-Baptista Pater,

practised by Watteau; from Oct 3 to Jan 8

representatives of the "fete

galante" painting, a genre also

COLOGNE

CONCERT Kölner Philharmonie Tel: 49-221-2040820 Gürzenich-Orchester, with conductor James Conlon, pianist Lars Vogt and the Kölner Philharmoniker perform Beethoven's Egmont Overture, Op.84 and Plano Concerto No.1 in C major, Op.15; 11am; Oct 3

Opernhaus Tel: 49-221-2218240 Tanz-Forum Köln: perform Jochen Ulrich's Care and Get Up Early to music by Kühn and Quintus; 7.30pm; Oct 3

DRESDEN

OPERA Tel: 49-351-49110 Tristan und Isolde: by Wagner. Conducted by Christof Prick and performed by the Sächsische Staatsoper Dresden, Soloists includa Wolfgang Schmidt, Siegfried Vogel and Luana DeVol; 4pm; Oct 3, 6

DUSSELDORF CONCERT

Tonhalie Düsseldorf Tel: 49-211-8992081 Württembergisches
Kammerorchester Heilbronn; with conductor Jörg Faerber, violinist Frank Peter Zimmermann and

ver Tabea Zimmermann works by Haydn, h and Mozart; 8pm; Oct

RANKFURT AM MA

COST Aite Tel: 49-69-1340400 Wy Quartet: perform Stravinsky, Schubert and 4 wich; 8pm; Oct 3

PXH-HITION Schim Kunsthalle Tel: 49-69-2998820 Ferdinand Hodler -

Freundschaft und Kunstsinn: retrospective exhibition featuring works by the Swiss painter Ferdinand Hodier (1853-1918), a precursor of Expressionism and member of the Sezession of Vienna. The display includes his early figurative work, his portraits and landscapes; from Oct 3 to Jan 5

OPERA. Städtiegije Bühnen Oper, Ballet, Schauspiel Tel: 49-69-21237444 Sanson et Dalla: by Saint-Saëns. Conducted by Sylvain Cambreling and performed by the Oper Frankfurt. performed by the Oper Francisco. Soloists Include Margit Neubauer, Hubert Delamboya and John

Bröcheler: 7.30pm; Oct 3 GOTHENBURG

CONCERT Göteborgs Konserthus Tel: Symphony No.8: by Bruckner.

Performed by the Göteborgs Symfoniker with conductor Claus Peter Flor, 7.30pm; Oct 3, 4 (6pm)

■ MUNICH

Nationalth 49-89-21851920 Love for Three Oranges: by Prokofiev. Conducted by Michael Halasz and performed by the Bayerische Staatsoper, Soloists include Marita Knobel, Sabine Hass and Kenneth Garrison; 7.30pm: Oct 3

■ NEW YORK

CONCERT Avery Fisher Hall Tel: 1-212-875-5030

 New York Philharmonic: with conductor Kurt Masur and violinist Glenn Dicterow perform works by Hanson, Barber and Dvorák; 8pm; Oct 3. 4, 5 Camegie Hall Tel: 1-212-247-7800

 Berlin Philharmonic Orchestra: with conductor Claudio Abbado and planist Maurizio Pollini perform Brahms' Piano Concerto No.2 in B flat major, Op.83 and Symphony No.2 in D major,

EXHIBITION

Whitney Museum of American Art Tel: 1-212-570-3600 Nan Goldin: I'll be your Mirror: a retrospective of photographer Nan Goldin (b. 1953), whose raw and intimate work has become a signature of the sexual and cultural urban underground of the past two decades. On view are

portraits, self-portraits, landscapes and interiors taken over 25 years in oitles including New York, Boston, Berlin, Tokyo, Bangkok, and Manila; from Oct 3 to Jan 5

PARIS

ART & ANTIQUE FAIR Espace Effel Branly Tel: 33-1 44 FIAC - Foire International d'Art Contemporain: international fair for contemporary art, Oct 2-7

CONCERT Cité de la Musique Tel: 33-1 44 84 45 00 La Petita Bande: with

conductor Sigiswald Kuijken, soprano Sandrine Plau, alto Mariike van Amhem, tenor Jean-Paul Fouchécourt, bass Harry Van der Kamp and the Choeur de Chambre de Namur, perform Haydn's Symphony in D. minor: 8pm: Oct 4

OPERA Théatre des Champs-Elysées Tal: 33-1 49 52 50-50 Le Nozze de Figaro: by Mozart. Conducted by Jean-Clauda Malgoire and performed by Le Grande Ecurie et La Chambre de Roy. Soloists Include Danielle Borst, Sophie Fournier, Hubert Classsens and

Patrick Donnelly: 7.30pm; Oct 5

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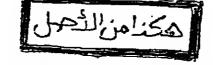
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financial markets 17.30 Financial Times Business Tonight

CNBC 08.30 Squawk Box

10.00 European Money Wheel

Financial Times Business



for further integration into

the only channel which is

not, and cannot be, blocked

why Italy and Spain have

suddenly decided to strive

for budgetary rigour in an

attempt to qualify for the

single currency. But one

reason is that monetary

union is now the only part

of the European project

which has any chance of

starting point for further

integration among EU mem-

ber states, not just for mon-

etary union but also for

political purposes. Any

member state which fails to

join the single currency will

thus find itself outside the

as structured by the Maas-

tricht treaty, has enough

political strength and legiti-

macy to bear so much

weight. Its strength and

legitimacy will be under-

mined if it includes coun-

tries with economic and

political systems which can-

Emu is being strength-

ened - as an afterthought -

man proposals for an eco-

The converse, bowever, is

In terms of the piano-

not be impossible. It just

takes practice.

not be counted on.

It is not clear that Emu,

political hard core.

Emu will therefore be the

There are several reasons

by the UK: Emu.

moving forward.

Ian Davidson

have not even started.

bolding a summit in Dublin

with the idea of getting the

a Franco-German initiative

(once again) to move the

discussions forward.

Chord of disunity

Just as a pianist must practise hard to become a virtuoso, EU members need to do the same to bring about reforms

A famous piano virtuoso once said there was no such thing as a difficult piece of music. Some pieces, he said, were easy; and some pieces were impossible. It was practice which made pieces migrate from the second category into the first.

It seems that much the same is true of economic and monetary union (Emu) in Europe. Six months ago it was fashionable to question whether the project could take off at all: too few countries appeared able to meet the stiff budgetary and economic criteria for membership. Even the essential participation of Germany

and France was in doubt. All of a sudden it ie equally fashionable to assume that the final phase of Emu will happen, most likely on schedule at the beginning of 1999 and possibly with more than half the European Union's member states taking part.

The European Commission's pronouncements on the single currency are increasingly upbeat, not to say cocky. Spain and Italy are redoubling their efforts to cut their budget deficits in the hope of joining the monetary union in the first wave. The markets expect it to bappen. Even the International Monetary Fund is adding its voice to the chorus of confidence, urging members not to be so tough on their deficits that they risk excessive deflation.

In short. Emu seems to have migrated from the category of things that are of things that are easy.

This is a pity for two reasons, First, Emu is still in that uncomfortable category familiar to all non-virtuoso planists: that of things which are very difficult. It will not be made easier by admitting countries which do not really qualify.

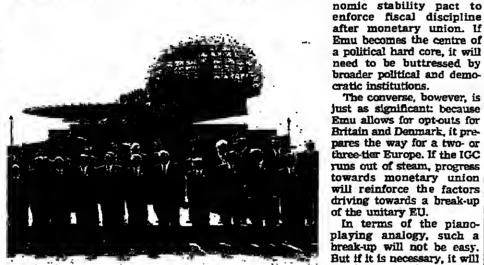
The second problem, equally serious, lies in the stark contrast between the

The reality, however, is trating all the political drive union and the bleak prospects for the intergovernthat the conference agenda mental conference (IGC) on will not move an inch so reforming and strengthenlong as John Major's Coning the EU. Most member servative government is in states want the conference power. As for the new rhetoto make treaty changes to ric on Europe of Tony Blair, strengthen the political intethe Labour leader, even the gration of the EU. It must most positive interpretation also introduce more majorwould still leave a future ity voting if the EU is to be Labour government with a able to welcome new memlong way to go before it bers from eastern and cencould sign up to a deal that tral Europe. Without this, would satisfy the other its decision-making could be member states.

paralysed by the difficulty This raises three grave difficulties. First, continu-ing deadlock in the IGC on of reaching agreement among the membership. So far, however, nothing any significant constitutional reform will put at has been achieved since the IGC began in March risk the EU's enlargement because the UK government into eastern and central Europe. At the very least, opposes any changes of significance. This is not to say enlargement negotiations that the other 14 member would have to be held up states chare unanimity on until there was a solution to all aspects of the conference the British problem. agenda: tbey don't. But Second, the Germans feel because the British oppose

they made too many concesany change, negotiations sions at Maastricht on Emu and received too little on This weekend the 15 political integration. The heads of government are fGC was supposed to be the opportunity to restore the balance - so if it fails we conference moving at last. can expect to see some sort France wants to give it a push so there is likely to be of a crisis between Germany and its partners.

The third difficulty is that deadlock in the IGC will by the negotiations on Gerhave the effect of concen-



euphoria over monetary Standing still: the IGC has so far achieved nothing

LETTERS TO THE EDITOR Number One Southwark Bridge, London SEI 9HL

We are been to encourage letters from readers around the world. Letters may be faxed to +44 171-873 5938 (please set in to fine). e-mail letters editores from Published letters are also available on the FI web sits, http://www.FI com Translation may be available for letters written in the main international languages.

Euro will work only if it replaces currencies From Mr Tim Congdon. Sir, Samuel Brittan (Economic Viewpoint. be acceptable in transactions old shillings when he next buys the Financial Times. people will be reluctant to use it. Rw James in the law to the law to

(Economic Viewpoint, September 26) claims "the euro will surely come". If his style of advocacy is the best that supporters of a single European currency can do, the message is - on the contrary - that the euro will never come.

Money serves two key functions, as a unit of account in pricing and a medium of exchange in transactions. Of course. these are related because transactions are denominated in prices, but they remain distinct. First, a unit of account is often needed as a reference point when no transaction takes place. Second, a medium of exchange must have value to

The central fallacy in the Maastricht process is the belief that announcement of a new unit of account (the euro) is equivalent to the introduction of a new currency. This is not so. A new currency has come into being only when it is also a medium of exchange. To be a medium of exchange it must also have value. In the modern world of paper flat money, value is conferred on a currency by the legal tender laws. Mr Brittan is wrong in his statement that legal tender is largely an archaic concept". If he does not believe me, I suggest that he offers his newsagent a 10 shilling note and four

Maastricht process is that the euro is supposed to become Europe's money on January 1 1999, but nowhere in Europe will it be legal tender at that date. Its constituents remain separate currencies and their value can fluctuate relative to each other. Fluctuations in their value then affect the value of the euro. There is simply no guarantee the exchange rates will be irrevocably fixed from January 1 1999, as the melancholy history of the exchange rate mechanism demonstrates. The euro's status as a medium of exchange in waiting is therefore uncertain and

legal tender) it will almost certainly have been discredited by changes in

the value of its constituents The only way to introduce e single currency is to end the old currency's legal tender status overnight so the new legal tender currency immediately serves both unit of account and medium of exchange money functions. Until Europe's leaders understand this, the single European currency will remain a pipe-dream.

Tim Congdon managing director, Lombard Street Research. 25 Dowgate Hill, London EC4 2GN, UK

want. I shall never forget the

Strategy for a tax cut

From Mr Matthew Gallagher Sir, Here are a couple of sound-bites from the world's fixed income markets.

First, at current rates of progress, Spain (within the week) and Italy (within the month) will be regarded as better credits than the UK. Second. If the UK were to sign up wholeheartedly for Europe tomorrow, the saving on our annual interest bill would amount to close to

Now these facts may or may not be of interest to the Chancellor, Kenneth Clarke at the moment. But if we assume that the UK remains in Europe for a number of years, the present value of an embrace of the European ideal by the current government would be some £5bn. Enough for a face saving pre-election tax cut perhaps?

Matthew Gallagher, MC Asset Management, Commercial Union Tower, One Undershaft. London EC3A 8LH, UK

half and two-thirds of gross

Many are extraordinarily

successful, particularly in

Germany, where about 500 family businesses dominate

world market niches in

advanced, high-quality prod-

ucts. Yet many remain unre-

cognised and their owners

worry that governments do

not care much about their

They are uncertain about it themselves, however.

About two-thirds of family

business · owner-managers

spend a lot of time thinking

about succession, but only

half bave made a will detail-

ing their intentions for the

business - and only a quar-

ter have told anyone about it

far enough in advance for

One result is that fewer than three in 10 become true

family businesses by surviv-

ing into the second genera-

tion. Research by Barbara

Dunn, head of the Centre for

Family Enterprise at Glas-

gow Caledonian University, suggests that only half of

these will pass into the third

Dunn's centre temporarily decamped to Edinburgh last

week for the seventh world

conference of the Family

Business Network, an associ-

ation and lobby group based

in Lausanne, Switzerland,

within the Institute for Man-

agement Development, the

independent business school

With 300 delegates from

around the world, but mainly from Europe, it was clear that family businesses

are beginning to organise

themselves as a group. Glo-

balisation of the world econ-

omy and common problems

appear to be breaking down

tendencies to secrecy and

Assisting this trend are

increasing numbers of aca-

demics who have spotted

family businesses as a fruit-

to-do-it management and

public policy deficiencies.

They are beginning to inter-

vene with a rationale that

effective planning.

generation.

and think-tank.

national product.

survival. ..

A dynamic UN will need strong chief

to maintain international

is required to convince

A strong secretary-general

peace and security.

member states that

isolationism is not the

an organisation worth

supporting. She/he must

administrator capable of

be capable of articulating

the challenges which the

international community

faces and eliciting the

necessary financial and

tackling bureaucratic excess

but, most importantly, must

undoubtedly be a good

answer and that the UN is

From Lord Judd of Portsea. Sir. The dispute over the future of Mr Boutros Boutros-Ghali as secretary-general of the United Nations ("A useful scapegoat", September 25) should be seen in the wider context of a fundamental debate over the role of the

UN In today's world. The challenges of the late 20th century require international co-operation. Individual governments are often powerless to act effectively against such global problems as the proliferation of conflicts, terrorism, drug-trafficking, food and water shortages The UN has a vital role to

play at the forefront of

initiatives to build alliances

personnel support to help meet them. The bottom line, bowever, is whether member states want the leaner, fitter more dynamic UN they profess to

senior diplomat who, when asked by me during my time as director of Oxfam what were the criteria on which the leaders of the international community were agreed for the selection of the secretary-general, replied: "You know perfectly well. The one criterion on which they are all in agreement is that on no account should we have a strong secretary-general." It is this cynicism that must be

Frank Judd, senior fellow, Saferworld, 3rd floor, 33/34 Alfred Place, London WC1E 7DP, UK

Happy to confront realities of market?

From Dr Gordon Downie. Sir. Gordon Getty tells us that he is opposed to state subsidy of the arts ("When money calls the time", September 28/29). As the removal of such subsidy forces the arts to compete in

the market place, Mr Getty is clearly in favour of arts organisations earning the right to survive. Given his opinions, I wonder whether it is Mr Getty's intention to reconsider his position regarding inherited wealth,

which, like state subsidy, also frees the recipient from the constraints and stark realities of the market?

Gordon Downie 21 Chemberlain Road, Cardiff CF4 2LW

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Gathering Many family businesses feel undervalued, misunderstood and entangled in red tape. Yet owner-managed enterprises account for more than of a clan half of all jobs and, depend-ing on which country they are in, contribute between a

Ian Hamilton Fazey on businesses that keep it in the family



Barbara Dunn: family participation in business is falling

Lank, professor in organisational behaviour at IMD and president of the Family Business Network. "They are secretive. They play their cards close to their chests, even if it is to their advantage to be more open."

So why treat them as something special? he asks. "Because they are better at creating jobs and in many countries they outperform quoted companies. As the shareholders in their own enterprise, their managers take a long-term view, which is usually better for jobs than short-term concern for immediate profits and taxa-

tion. They offer stability."

Annelie Karlsson, of the Stockholm School of Economics, offers another view, having spent a year researching the Bonnier family-owned publishing dynasty in Sweden, which was founded in 1804 and now has 60 family owners. "What makes them unique is the emotional dynamic within the business," ahe says, "By ful area for research on how. the time you get past the second generation, there is a spiritual inheritance to pass on and the business becomes a family beirloom. It would

governments may find diffibe unthinkable to sell." cult to ignore. Family businesses are sometimes their own worst eration, shareholders funcenemies, says Mr Alden tion as a clan, with the family is struggling to do

demands of individuals secondary to the needs and traditions of the business.

'Professional managere may be able to watch over other people's money. They can never watch over other people'e traditions. In a family business, it may not be as important as in a publicly owned business to maximise profits. It may be more about how business is done," Ms

Karlsson adds. Prof Lank sees three main areas of concern about family businesses: visibility and recognition; succession and taxation; and corporate governance. The second may be simplest to deal with because tt is relatively easy for governments to change

fiscal policy. The UK, which now has business-friendly inheritance taxes, is seen as a model by family husinesses in France, where it is almost impossible to pass on a business intact from one generation to another. In Spain, there is a growing lobby for UK-style legislation that would enable assets to be pleced in trust so a business could carry on uninterrupted by penal taxation when the next genera-

tion took over. She says that when a com-pany gets past the third gen-are more difficult, Ms Dunn says. "However, just as the

remain intact as a social . . unit, so are family busi- =:nesses struggling for surso important and their needs. are so unique that perhaps they should be treated as a sector in their own right."

Prof Lank agrees: "There could be a quid pro quo for special treatment as a sector - the ending of secrecy. In return for helping family businesses as a sector, governments could demand more professionalism and be much more active in the field of corporate governance." Greater openness to outside scrutiny would also reduce regulatory pressure and should, theoretically, cut red tape.
Ms Dunn'e research has

shown just how private family businesses are at the top. The average board of directors numbered three, all related to each other. Only 3 per cent had a non-family, non-executive director. Only 28 per cent recruited nonfamily graduates and although a similar minority sent managers for training, courses were on nuts-andboits subjects such as information technology, quality management and financial control. No one was sent away to learn about develop-

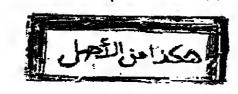
ing buman resources. Prof Lank believes more work needs to be done, and says it is in the interest of

governments to fund it.

The other crucial issue is accesa to capital markets. partly because of costs and compliance requirements But more important is the reluctance of many family shareholders to surrender equity to ontsiders in exchange for resources to develop their businesses.

This can inhibit growth, but the London Stock Exchange, a co-sponsor of last week's conference with the government-backed Scettish Enterprise, hopes fami-lies will realise that the new Alternative Investment Mar-ket enables finance to be raised more cheaply and easily - and without families

losing overall control.
With academics in pursuit of research funds and heavyweight professional edvisers in search of fees, family businesses are increasingly a market in their own right. Indeed, such allies and suppliers may do more for visibility and recognition problem than family businesses could ever do for themselves.



aking stoc old debt

FINANCIAL TIMES

Number One Southwark Bridge, London SEI 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday October 2 1996

Labour with a difference

the speech of a man preparing for victory, but it was to a party not yet prepared for government. His conference speech represented another ambitious atride towards redefining hints of radicalism with a pow-Labour's broad ideological aims. It also filled in some detail on the measures by which a Blair government would seek to effect

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Still missing is much of a clear idea of how his party would govern - the detailed structure of policies and the choices to be made between them. In that deficiency lies a danger that could dog Labour both before the general election due by May, and thereafter if it

This is not to belittle Mr Blair's achievements to date. In the two years aince be last addressed a Blackpool conference, he has junked many of the nition of policy in important party's traditions, launched a areas such as health. It is glarpowerful assault on the political centre ground, and created a commanding - perhapa unas-sailable - lead in the polls.

What he bad not done until this week was to set out a compelling vision which could both rally the party battalions in the conference hall and reach out to a broader audience beyond. Doubts persisted outside the party as to the depth of the conversion and the breadth of aupport Mr Blair could rely on. Supporters worried that he was not offering a sufficiently appetising recipe for a change of govern-

Clear purpose

Yesterday's speech should allay doubts that Mr Blair is different. Some of his language was glib; some of its rhetoric redefine Labour as a vehicle for

That in Itself would have been was the fact that the audience applauded. Old Labour may not understand its new leader, but

basis for the broader centre left consensus that Mr Blair sees as indispensable to securing power for more than one term.

The Labour leader combines erful vow of fiscal and economic orthodoxy. Both be and Mr Gordon Brown, the shadow chancellor, are scornful of the idea that problems can be solved by throwing a few billion extra pounds at them. Instead, they promise to reshape the entire government budget in the service of a more "decent" society.

More detail

This is where the remaining doubts creep in. For hetween the overarching vision and the many points of detail set out this week, there is a gap. It is visible in the lack of sharp defiingly apparent in the absence of a strategy to match the leadership's warm words on Europe. It is clear from the fact that, although Mr Blair promises to spend a greater proportion of national income on education. he is reticent on which areas be will deprive of funds to achieve

In part this gap may reflect understandable caution about offering bostages to Tory campaigning ahead of an election that may still be eight months away. The worry is that the lack of clarity is not just on the surface: that the leadership has not begun to work out precisely how it would proceed in its crucial first year in office.

That would be a disaster not just for Labour's electoral prospects but also for Britain. Parties without a coherent strategy swerved into bathos. But the for government find themselves central purpose was clear: to at the mercy of events. And there would be no shortage of aspiration and opportunity - a such challenges for a new party for people whose Labour government in mid-1997, 'instincts are to get on in life". from pressing decisions about European monetary union to inconcelvable two years ago; the need to deliver on ambitious just as remarkable yesterday commitments such as constitutional reform, Mr Blair and his colleagues should beware lest tbeir confidence turn into he has managed to set the par- hubris that blinds them to the ty's new blood racing. His pro- need to plan for government.

Taking stock of old debts

Landmarks ought to be broadly as possible. Germany celebrated - even when it has taken far too long to reach them. The main shareholders of the World Bank and the International Monetary Fund this week offered the world's most indeoted countries the possibility, just the possibility, of making a fresh start. If all goes according to plan, official creditors will spend between \$5.6bn and \$7.7bn over the next decade or so on reducing very poor countries' debt burden to a level they can bope to grow out of.

It will take continued pressure - by debtor countries and their supporters - to ensure that deserving nations actually get this second chance. None of the debts owed to the multilateral institutions will be formally written off, as many aid organisations and debtor nations bave long urged. But, in theory, the medium-term effects of the programme will be similar to a straight write-off. It will be up to the countries themselves to ensure that that the new oppor-

tunity is put to good use. That the chance exists at all is due in no small measure to Kenneth Clarke, the UK Chancellor. Along with some committed pressure groups, he has spent the past two years wearing down opposition to multilateral debt relief from other leading creditors. Yet it is not a complete victory. As things stand, many desperate countries could still find themselves waiting too long, for too little.

The most ohvious failure relates to Mr Clarke's early proposal to sell part of the IMF's \$40bn (£25.6bn) gold reserves to finance its contribution to the plau. Luckily, Germany and Switzerland's opposition to this suggestion was not allowed to scupper the whole plan at this week's Washington meetings. Yet, in the long term, the IMF is unitkely to be able to stick to its debt reduction promises without the sale of some gold.

Commitment lacking

formally committed funds will inhibit the IMF from implementing the initiative as quickly and out. The rest is up to them.

could avoid any blame for this by belatedly agreeing to modest gold sales when the subject is discussed again, at next year's spring interim meetings.

Selective approach

The Paris Club of guvernment or bilateral - creditors bas also been more niggardly than it might have been. The new promise to reduce a qualifying country's bilateral debt stock by 80 per cent sounds generous. And certainly it is an improve ment on the earlier "Naples terms" reductions of 67 per cent. But the promise applies only to selected chunks of the debt stock. The actual reduction received will vary by country. and will generally be considerably smaller than the beadline figure implies.

Critics of those such as Mr Clarke who want to see a faster, more generous debt-relief scheme claim that it is forgetting the importance of conditionality. On this view, it is quite bad enough to be seen to be rewarding past failure through debt reduction. The very least creditors can do is insist on a lengthy, unbroken track record of improvement before stepping in to belp.

This argument has considerable force. It is in no-one's interest - least of all the countries concerned - to waste hard-won money for debt reduction on corrupt, inefficient governments. If anything, the support provided under the new plan should have more strings attached than previous support. Creditors must do ali they can to ensure the money goes toward reliable anti-poverty programmes and policies that support development - not. as occurred too often in the

But the depth of the crisis facing many of these countries means there is very little time to waste. Ultimately, the new mitiative will be judged by its The danger is that the lack of ability to give early and generous recognition to governments that are honestly seeking a way

past, to lining the pockets of a

The FT Interview · Romano Prodi



Italy's road to Maastricht

The Italian prime minister tells Robert Graham of his determination that his country should be a founder member of the single currency

budget by Italy's centre-left government has been dubbed by the opposition as a sudden conversion on the road to Maas-

In little more than two weeks. Mr Romano Prodi, the prime minister, has radically altered bls ideas on participation in European monetary union. He has tricht criteria: but I was ready to concluded Italy bas no option but to try to comply by next year with the strict criteria of economic convergence laid down in the Maastricht treaty for mem-bership of the single European

The change of heart was formalised in the 1997 budget. He seems remarkably sanguine unveiled last Friday. It involves a reduction in the fiscal deficit almost twice as big as anticipated, designed to bring it down to the Maastricht target of 3 per cent of gross domestic product by the end of next year - the qualifying date for membership of the single currency.

"The budget is remarkably tough." says Mr Prodi, relishing the fact that the government bas dared to reduce the fiscal deficit by more than the target set earlier in the year, "If we do all this It will be impossible to leave Italy out of monetary union."

The prime minister, who took office in May at the bead of Italy's first centre-left administration, backs up the point: "This is a country which has begun to make serious adjustments. The deficit as a proportion of GDP has come down since the early 1990s from over 10 per cent to a 4.5 per cent currently. We are aiming for 3 per cent. In addition we are running an exceptional primary surplus (the balance of receipts and expenditures before interest payments] which is 5.5 per cent of GDP." Mr Prodi used to feel it would

be adoption of an not be a "tragedy" if Italy were a unexpectedly rough bit late in meeting the Maastricht criteria. But the government clearly became alarmed at the prospect of being left behind in the scramble to comply with the

targets for monetary union. The 57-year-old premier insists with the authority of a trained economist: "I always had in mind the possibility of a more ambitious budget to meet the Maasdo this only when I felt the whole country was behind the idea." He is sufficiently confident of

popular backing for Italy to be a full European partner that a fifth of the fiscal adjustment in the 1937 budget is a special income tax called the "pro-Europo tax". that this one-off European tol! will not backfire and laughs when asked what bappens if people want their money back should traly fail to qualify.

But when did he realise Italy would not be able to bend the rules to slip into the monetary union? "The change occurred after the summer when I saw that other countries were making a serious effort to address their budget deficits . . . I realised Italy too could not miss the appointment with Europe.

This change was first hinted at in letters sent in early September to Mr Jacques Chirac, the French president, and Mr Helmur Kohl. the German chancellor. But Mr Prodi acknowledges that a significant contributory factor was his meeting in Valencia last month with Mr José Maria Aznar, the Spanish premier.

In an interview with the FT on Monday, Mr Aznar said Mr Prodl attempted - unsuccessfully - to draw the Spanish into a "Mediterranean alliance" which would demand a more flerible interpreration of the Maastricht rules. The Italian premier rejects this account, but says: "Valencia was The meeting was useful for our Whatever went on in Valeucia.

it is now certain that Italy and Spain intend to do the maximum to ensure they participate in the creation of the single currency. That would leave the UK as the only large EU country still unde-"I have always believed the

City of London would not miss the opportunities created by monetary union." Mr Prodi observes. "When it comes to the time, the UK will think twice before missing the boat."

The Italian prime minister has bad no previous experience of political offic.. But he has twice headed Iri. Italy's glant state aware of the problems of dealing with the two leading EU governments of France and Germany. He knows it will be hard to convince them of Italy's credibility and establish the right exchange rate for the lim to re-enter the European Euchange Rate Mecha-

The French have been the most outspoken in attacking the competitive threat posed by Italy's devalued IIra. But the country's powerful industrial lobby will be equally anxious to ensure that the exchange rate or which the lira re-enters the ERM does not erode Italy's competitiveness.

Mr Prodi argues that the credibility of public finances is not just an italian issue. He is scathing about some of the ways France has adopted to reduce its budget deficit to meet the Maastricht targets. "If others carry out window-dressing we can do the same," he says, "If no one does then we won't."

Some L13,000bn of the 1997 Italian budget, a fifth of the total package, is due to come from what are blandly termed "trea-

very important as I wanted to sury operations", "If the French know what Aznar had in mind, get away with it, then we can show them a trick or two as well," be says with a chuckle.

Mr Prodi is sensitive to critivising that his budget relles too much on fresh taxes at the empense of cuts in spending - tax rises account for almost half the reduction in the fiscal deficit.
"Spending on health and the

public administration as a whole is not high by European standards," he says, "And we have moved to curb abuses in pensioos." Almost a quarter of the L25.000bn in spending cuts will come from trimining welfare benefits and ending pension anoma-

costly pension.

tem is impossible, he says, because of an says, because pension agreement to introduce pension reform made with the unions in July 1965 by the government led by Mr Lamberto Dini. "The previous government gave an undertaking that any further structural changes in pensions could not be done until January 1998," he says, "We have to respect that,"

Such caution reflects Mr Prodi's background close to the left of the eld Christian Demograt party and his desire not to provoke a destabilising confrootation over outs in the welfare state. "There is a need for consensus on social issues," he says, He wants to avoid the kind of conflict that has erupted in France where efforts to curb welfore spending have spacked strikes and unrest.

His opponents claim such caution is proof he is hostage to the hardline communists of Reconstructed Communism (RC) led by Mr Fausto Bertinotti. Mr Prodi's Olive Tree alliance relies on Mr. Bernnotti's support for its parlis-

mentary majority, "They can only blackmail to a limited extent," the prime minister says. "Bertinotti knows where to stop and he doesn't want to bring down the government."

These comments suggest the budget - with its emphasis upon making wealthy Italians shoulder the main burden of sacrifice -has led to closer ties between Mr Prodi and Mr Bertinotti. The understanding with Mr Bertinottl provides the government with greater stability in the short

But in the long term, it allows the opposition to accuse the government of having abandoned the centre ground for the left and or having betrayed one of its most comprehensive reas- important electoral pleages, not sessment of italy's to raise taxes, it could also comtionship with Mr Massimo D.A. lema, the leader of the Party of the Domocratic Left (PDS), the reformed communists who are dominant in the Olive Tree alli-

> Mr Prodi has no party base of his own and was chosen as prime minister only because the left feared the country was still not ready to accept a former communist such as Mr D Alema - even though he expresses social demo-crat views. "The situation is anomalous," Mr Prodi admits. He also concedes he and Mr D'Alema do not always see eye to eye.

> But undoubtedly Mr Prodi feels he has strengthened his position us a result of the budget and he talks like someone set for a full five-year term. "There is no alternative to the present government," he says. "The opposition is weak and divided."

> He then adds with the curious mix of modesty and pride that colours much of his conversation: Slowly, and with some slips. haly is acquiring a government able to govern - and that is

BSERVER

Integrate thyself

■ Kazuo Inamori is breaking the mould again. The founder and chairman of Kyocera, the Kyoto-based producer of around 70 per cent of the world's integrated circuit ceranic packages, hopes to retreat from worldly affairs after his 65th birthday in January. He plans to shave his head and become a Zen buddhist monk.

Most Japanese executives tired of the commercial hurly-burly opt for enlightenment on the golf course.

But Inamori has long harboured religious feelings, more so since relinquishing full time management four years ago. Always ready to defy the conventional, his career kicked nff in iconoclastic style: be and seven colleagues broke away from a Kyoto ceramics company 37 years ago, to found what is

now Kyocera. Since then he's pursued business with a philosophical fervour, believing there is more to corporete success than mere profit. He finds the pursuit of money for its own sake futile: "Money has legs and if you try to eatch it. if will run away."

So inamori yesterday told a startled press conference that he plans to study asceticism at Empuka-ji, an 18th century

temple in the leafy hills just outside Kyoto, the religious and cultural heart of Japan. He was told by a monk there that now is a good time to begin.

If the Kyocera chairman follows the normal regime for novices, he will rise in the small bours for zazen, or meditation. then sweep the rooms or clean the garden. Empuku-ji will expect him to spend much of the rest of the day standing in the street, under a straw hat. holding out a begging bowl for alms. Perhaps not such a radical change from attending shareholders' meetings after all.

Rifkind sees red

Malcolm Rifkind, Britain's foreign minister, loves tweaking the tails of his Eli counterparts. He was at it again in Luxembourg yesterday, pouring scorn on member states for blocking a trade accord with Jordan over - wait for it imports of tomato concentrate.

Now, tomato concentrate is a big export earner for Jordan. which originally called for Brussels to lift current tariffs on 15,000 tonnes of the stuff. But after objections from the Club Med countries and, surprisingly. the supposedly free-trade Germans, the Jordanians cut their demand to 5,000 tonnes. Yesterday, the Commission came up with a compromise of

just \$,000 tonges - even though. as Rifkind pointed out, the EU itself produces sumino tonnes. annually.

By Rifkind's own maths, the EU was arguing pesterday about one-eighth of one per cent of EU production. Hardly the stuff of which grano foreign policy is made, especially when the Europeans are clareouring for a bigger diplomatic role in the Middle East. But Rifkind's fractious

behaviour irritated colleagues. Several saw it as a play to pick up Euro-sceptic headlines in the UK's yellow press. They could have a point. As one Irishman said - if he cares so much about tomato paste, why did he waltz off, leaving his deputy David Davis to argue the nitty-gritty with other ministers?

No tax Bill

At the tender age of 40. Bill Landuyt, the chairman and chief executive of Hanson subsidiary Millennium Chemicals, is on course to become a millionaire many times over. The demerger of the chemicals business opens the way for him to receive free shares worth \$10m, as part of the company's long-term incentive programme.

But to qualify, Landuyt, a former Hanson main-hoard director, will have to show considerable commitment to the

penalues has been a key part of the planning behind Hansoo's four-way split. Under a deal with the UK's Infand Revenue. Millermhum has to remain headquartered in Britain for the next five years, or pay an additional tax bill of some 2500m. Every significant management decision and all the company's board meetings must he taken at the UE. headquarters, even though most

husiness. Avoiding panitive tax

of its activities are in the US. Landayt may thus see even less of his New Jersey home than when employed in managing Hunson's US affairs. He says he has already decided where he will live: "On an ueropiane".

Hirsute history

Better late than never. Santiago Carillo, the former secretary general of Spain's once banned communist party. yesterday gor back a light-brown wig, take facial hair and a lab nechnician's coat, the rather ineffective disguise he was wearing when arrested in December 1976.

The objects were returned to Carallo during an official ceremony; doing the handover was the man who arrested him. Rodolfo Martin Villa, former interior minister. There was no disguising Coulle's pleasure.

Financial Times

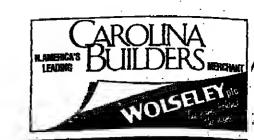
100 years ago Strike in France

Just now they are very much concerned in France about the strike that is being carried on by the weavers of Lyons. These good weavers are more or less permeated with the vice of Socialism. and in pursuance of their principles they demand wages which the masters protest will run the industry. That is the way with masters, of course, all over the world: still, they may be right in this instance. The strikers are taking an amusingly ligh band. In fact, to quote a Paris journai, "They talk with authority to the Municipality of Lyons and demand the ruin of the manufacturers by imposing upon them the payment of enormous salaries."

50 years ago

Shortage of Fats The U.S. Department of Agriculture reports that certain factors restricting production may prevent the world fats. and pils output reaching the 1935-39 level for three years or more. Because of political unrest, years may be required for the restoration of normal production of Mancharian soya beans and Sumetropalm-oil. Antarctic whale-oil production has been limited to about one-half the 1938. level by international caree ment, the Department said

ses, see ROWE & MAW: 25ap (ph 0171-248 4282)



Sydney offers Olympic seating at golden prices German

By Nikki Talt in Sydney

Sports fans eager to accure seats at the Sydney Olympic Games in 2000 saw their first opportunity yesterday with the leunch of an innovative A\$365m (\$289.6m) public offering of securities in the city'a yet-to-be-built Olympic sta-

Investors are being offered 34,400 "gold passes", which will combine equity ownership in the facility with reserved prime seating for all Olympic events at the stadium.

The gold packages have been priced at A\$10,000 esch, and will raise A\$344m. The offer will open next week and the closing date for applications will he November 29.

In addition, there will be a smaller separate offering of 600 "platinum" packages – which offer two guaranteed seats at a cost of A\$34,000 each. This will raise another A\$20.4m.

Part of the funds raised from the offering - about A\$65m - will go to the Olympic Coordination Authority, the body

EU to seek

trade law

Continued from Page 1

trade retaliation.

ruling on US

US would be required to

repeal the legislation, compen-

sate its trade partners or face

ney games. But the net proceeds should total just under A\$300m, providing almost half the estimated A\$615m cost of

only to individuals, family

packages each. In addition, Mr Peter

added, did not want "silvertails sitting on memberships that are oever used. We want members who are going to use

Olympics, as well as preferen-tial booking rights to events such as concerts.

Initially, these "gold membership" rights will transfer automatically if the equity investment in the stadium is

Kremlin 'accused of freezing gas giant's accounts'

and John Thornhill in Moscow The US is expected to argue that its laws are covered by a rarely-invoked national secu-Gazprom, Russia's powerful natural gas monopoly, yesterrity exemption, Deciding day accused the government of whether such a claim was freezing its hank accounts as valid could present a WTO dispunishment for unpaid taxes,

pntes panel with an acute according to Russian news political dilemma. Officials expected the EU The report could signal an also to challenge the D'Amato Act, which penalises foreign unprecedented rift between Russia's wealthiest and most investors in the Iran and influential corporation and the Libya. However, Brussela government.

The move would be welmust first file a complaint with the WTO and hold 60 comed by some international financial institutions, which days of consultations with the have pressed the Kremlin to The EU's display of resolve crack down on the nation's appears partly to mounting richest companies in an effort frustration that Washington is to increase its low levels of tax astonished analysts, who had collection. However, the measure would also coincide with Gazprom's decision to launch a long-awalted offering of its shares to western investors

later this month. Speaking to Russian journalists, Mr Rem Vlakhirev, the chairman of Gazprom, yesterday announced that the government had frozen the giant

concern's bank accounts. According to the Russian news agency Interfax, Mr Viakhirev said the government was also preparing inventories of the property of several Gazprom subsidiaries and had threatened to auction them off if the company did not pay overdue taxes.

Mr Viakhirev denounced the

government's move and said that Gazprom's dehts to the treasury had been caused by the failure of many natural gas consumers to pay their own bills to the corporation.

According to Mr Viakhirev, the company owes about Rhs15,000hn (\$2.8hn) to the government in overdue taxes. But he said that Gazprom was owed Rhs48,300bn by its customers. Gazprom's biggest debtors included the cities of Moscow and St Petersburg and Russian regions such as Tiumen, Nizhny Novgorod and the autonomous republic of Tatarstan, he added.

The reported rift between believed that the company'a close links with Mr Victor Cheroomyrdin, the Russlan prime minister and former gas monopoly chairman, would have ensured favoured status.

The altercation suggested an abrupt end to the previous implicit arrangement wherehy Gazprom provided hugely subsidised natural gas for Russian consumers in exchange for a tolerant government view of

Mr Stephen O'Sullivan, an oil and gas analyst at MC Securities, stressed there was as yet no confirmation of the Russian agency reports, but. said the incident could imperil Gazprom's planned international share offering

strike in benefits

By Wolfgang Münchau in Frankfurt

cuts in sick pay benefits.

cots the minimum statutory cent of wages to 80 per cent.

About 12,000 workers at the Rüsselsheim plant of Adam Opel, the subsidiary of General Motors, staged a protest and another 10,000 walked out st

guarantees. Mr Kari Feuerstein, head of the works council at Daimler-Benz, which previously prided itself on its excellent labour relations, said the cuts in sick pay were poisoning the indus-

"We are incredibly bitter. The company cannot breach the law with impunity. We are not living in a banana repub-

Mr Feuerstein claimed the strikes had cost the company DM200m (\$135.1m) in lost production. This would exceed the DM140m which the company said it would save each year in

series of legal claims and counter claims. IG Metall says the cuts at Daimler are illegal because most workers have labour contracts that guaran-

man companies have refused to follow the Daimler-Benz lead. Volkswagen, BMW and Porsche all said they would stick to current arrangements.

THE LEX COLUMN De Benedebti

Olivetti's financial position looks increasingly precarious. Net debt nearly doubled to 1.2,394hn (\$1.57bn) in the two months to the end of August. Seasonal factors are partly to blame; so is the cost of paying for Its restructuring programme. But there are also worrying signs that Olivetti's suppliers and financiers are losing patience: during July and August, the company did not raise as much money as normal from securitising and factoring its commercial credits. Nor was it, apparently, able to delay payments to its

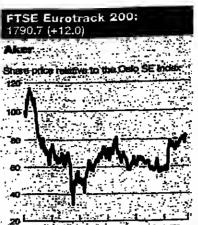
There is probably no immediate danger of Olivetti's running out of cash, since it has traditionally held high levels of financial assets. Still, the L1,930bn of cash and financial assets it had at the end of June has presumably heen considerably depleted. The company will need more cash in coming months to cover losses and pay for redundancies. It also seems unlikely that Olivetti will be able to rid Itself of its troublesome personal computer division without parting with cash.

Olivetti is optimistic that disposals will fill the funding gap. That would certainly be preferable to yet another rights issue or a debt-forequity swap, which would massively dilute shareholders. The snag is that Olivetti has made so many false predictions in the past that investors can have little confidence in the latest promises from a board that is still controlled by Mr Carlo De Benedetti, the ex-chairman.

Aker/RGI

If the NKr9bn (\$1.38bn) merger of Aker and RGI is meant to create a Norwegian national champion, it is the sort of champion investors can do without. What will become Norway's fifth largest company claims to be "focused" - using a novel definition of the term - on fishing, cement and oil equipment. On top of that come shipbuilding, materials handling, sports shops and publishing. Worse, all three main businesses are merely part-owned and two have separate listings. So Aker RGI will be little more than a holding company, such as the ones that control Sweden's Wallenberg family empire - though without the Wallenbergs' impressive record.

'Aker shareholders might also question RGPs motivation. By taking a big stake in Aker and then instigating the removal of its chairman and chief executive this advantage just because it is smaller; spring, it has bounced its more buying South West would thus



sedate partner into this merger. The driving force behind RGI is Mr Kjell Inge Rökke, a 38-year old entrepreneur, who will personally end up with a third of the enlarged company. While he deserves credit for building up RGI, which apparently catches one in every 12 of the world's fish, he has little experience outside that industry. RG1's real aim may be to use Aker's respectability and good political contacts to hring about a restructuring of Norway's fishing industry. Certainly, there is neither industrial logic nor any cost savings to justify this deal. And the first thing Aker RGI will have to do is find a new

chief executive. UK water

Sitting on the desk of Mr Ian Lang, Britain's trade secretary, are some fat tomes from the Monopolies and Mergers Commission. Most likely, they recommend hefty price cuts for South West Water customers in return for allowing blds for the company from Severn Trent and Wessex Water. The result. assuming the price cuts are not too tough, will presumably be a bizarre

Doubtless, such a battle would be fun. But shareholders in the bidders should beware; the risk of overpaying in an eaction is high. As Scottish Power's misguided acquisition of Southern Water showed painfully clearly, competition between bldders - even for boring water companies - can get badly out of hand. Nor has the debate so far been reassuring. Many, for instance,

argue that Wessex has a powerful

Live merger enhance Wessex'a earnings more than Severn Trent's. Arithmetically, this is true enough - but as a reason for bidding high it is gibber ish. The question for any bidder is not how far an acquisition enhances earnings but whether the price is more or less than the target is worth. From this point of view, Wessex's size is irrelevant: it should pay more than Severn Trent only if t can add more value.

Maybe it can: Wessex is next door to South West and should be able to cut out a bit more cost. Yet neither hidder would find it easy to add as much value as another potential purchaser not currently in the frame: Sweb, a subsidiary of the aggressive Southern Company of the US. As the local power company, Sweb could almost certainly take out more cost than any nonoverlapping water business. Moreover, eccentric regulation means Sweh, unlike a water bidder, might well not have to offer price cuts to customers. It looks an obvious potential white knight.

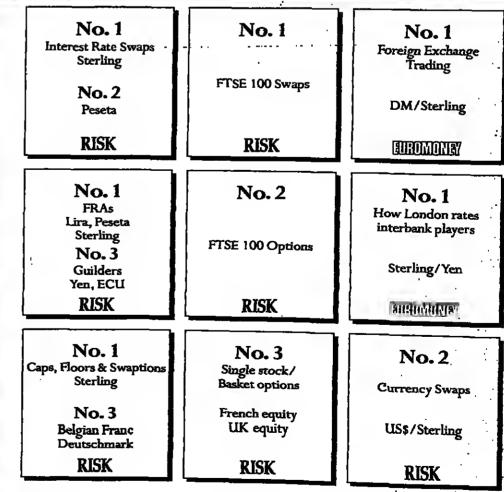
Meanwhile, Severn Trent shareholders deserve a convincing explanation for the company's participation in this high-stakes game. Could it really not go for another water company where no rival bidder exists? Or better, why not launch a bid which would make even more sense: for the local independent power company, East Midlands? Again, water-electricity should trump water-water; price cuts should not be needed and cost savings should be greater.

Of course, this underlines the odd consequences of the water regulator's enthusiasm for keeping companies apart so he can compare them; this is his justification for penalising water-water mergers through price cuts. The concern is understandable, but given the cur-rent number of water companies looks overdone. And it has serious disadvantages. It creates a bizarrely lumpy playing-field, pointlessly favouring water-electricity deals over water-water ones. And it artificially discourages mergers which would ultimately benefit customers through economies of scale.

It would be welcome, therefore if Mr Lang were to take the opportunity of the South West Water case to impose some sense and rewrite the rules. Sadly, since this would mean overruling politically convement price cuts, investors should not count on it.

Lex comment on Labour, Page 21

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Europe today Most of the UK will heve

suriny spells but rain will spread into north-west areas later. The Alos will have torrential rain. Italy vill have thunder shows Northern Spain, southern France, the eastern Baltics and northern Russia will have rain. The Balkans wil be calm and sunny. Southern Spein and Portugal will be warm and sunny. Germany and the Benelux will have showers

Five-day forecast The central Mediterrane area will be unsettled. Italy will have plenty of rain, which may give rise to floods in some areas. North-western Europe will stay unsettled. Spain, Portugal and the Balkans will be fine.

Abu Un Accra Algiers Amsten Atlanta B. Alres B.hem

Lufthansa

We wish you a pleasant flight.

Frenkfurt Geneve Gibratter Gibratter Giasgow Hamburg Helsenid Hong Kong Honolutu Istanbul Ist

political force.

not taking it seriously as erbated by President Bill Clinton's failure to invite European representatives to the

Middle East summit in Wash-Yesterday's decision was also influenced by delay in agreeing to EU blocking statutes, designed to negate the impact of the Helms-Burton

and D'Amato laws. The proposed statutes are based on three different articles in the Rome Treaty and need to be sent to European parliament before securing unanimous approval by the Council of the stadium's development.

Remaining funding for the 110,000-seat stadium - which is being huilt by a consortium which includes Japan's Obayashi Corporation and Austra-lia's Multiplex group - will come from a mixture of debt and equity. The public offering has been fully underwritten hy four local broking firms.

Yesterday, directors of Stadium Australia attempted to deflect criticism that the scheme would be prohibitive for "average Australians". The gold packages would be sold companies and family trusts, and subscribers would not able to apply for more than six

Ritchie, chairman of Stadium Australia, said bank finance would be made available "to those who do not have immediately available funds, subject responsible for the construc- to normal credit checks". The

the stadium". Aside from the Olympic access and the equity interest in the stadium, the gold packages will confer membership of the Stadium Australia club for 30 years - providing entry to most other sporting events held at the stadium after the

The equity units will he listed on the Australian Stock Exchange, it is hoped by the

end of this year.

Applicants for the gold packages will be able to nominate alternative recipients for their Olympic tickets, and also transfer these to different people in the future. However there will be a han on any ticket trading or reselling.

cuts row

More than 100,000 engineering workers took part in mass protests throughout Germany yesterday as several companies went ahead with controversial The protests came on the day a law took effect which

sick pay benefit from 100 per Tensions rose at Daimler-Benz, Germany's largest industrial group, which last week hecame the first large company to announce plans to

make the cuts. About 16,000 workers walked oot at one of the company's main factories in Stuttgart, and 12,000 at plants in Bremen

and Mannheim.

Ford's car plant in Cologne. IG Metall, the engineering union, has threatened legal action against companies implementing the new rules in cases where existing labour contracts give specific sick pay

trial relations climate.

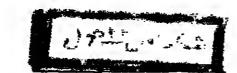
reduced sick pay bills. The dispute has led to a

management Daimler-Benz and other companies insist the new law overrides existing contracts. There is widespread disagreement among German labour lawyers oo the issue.

However, several large Ger-

group, which first followed Daimler's decision to cut sick pay, said yesterday it may now seek a deal with its workforce. The company will keep paying full sick pay for the time being but would take the issue into account in future negotiations.

FT WEATHER GUIDE





FINANCIAL TIMES

COMPANIES & MARKETS

Wednesday October 2 1996 OTHE FINANCIAL TIMES LIMITED 1996



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Aker and RGI I revive merger

Aker and RGI, the Norwegian industrial groups announced a merger to create one of the country's biggest listed companies - just 24 hours after saying talks had broken down. Mr Kjell Inge Rokke, the founder and main shareholder in RGI will personally hold a 33 per cent stake in Aker RGI, which will have turnover of NKrishn (\$2.9bn) and a projected market capitalisation of NKr9bn. Page 16; Lex. Page 14

SQB to consider Tractabel merger Société Générale de Belgique, Belgium's largest holding company, said it would consider merging Tractebel, the energy and engineering group of which it took full control this week, with its subsidiary Powerfin. The group also reported an increase in first-half net profits from BFr6.34bn to BFr6.72bn (\$214m). Page 18

Strong demand lifts Valmet 60% Buoyant global demand for paper-making machinery pushed up profits 60 per cent to FM619m (\$135m) at Finland'e Valmet, one of the world's top forestry industry machine makers, in the first eight months of the year. Page 17

Wells Fargo 'most profitable bank' Wells Fargo, the California retail bank, was the most profitable bank in the world last year after adjusting for different inflation rates and ratios of capital to assets, according a study by IBCA. the European bank rating agency. Page 18

IT groups' move bolsters GSM standard An initiative involving 12 leading information technology companies - including International Business Machines, Intel, Microsoft and Compaq - to improve communications between personal computers and mobile phones looks set to confirm the European standard for mobile digital telephony, GSM, as the worldwide standard. Page 18

Coles Myer dips 33% in year Coles Myer, Australia's biggest retailer and the focus of an institutional battle over corporate governance standards last year, announced a 33.8 per cent fall in full-year after-tax profits from A\$423.4m to A\$280.4m (US\$221.9m).

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John Mowlem

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GWR	21	Suez*
Gezprom	14	
HM Sampoome	20	
HSBC	20	Tibbett & Britten
Hang Seng Bank	18	Tractabel
Hanson	21	Transfesa
Honshu Paper	20	Tychy
House of Fraser	21	UBS
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SA Breweries expands in Poland

By Christopher Bobinski in Warsaw and Roderick Oram in London

South African Breweries. which will price a \$300m international equity issue on Friday, yesterday becama the world'a fourth-largest brewer when it acquired control of Tychy, one of Poland's largest

It overtook Brahma of Brazil, but with about 38m hectolitres of annual capacity it lags behind Anheuser-Busch of the US with 107m hectolitres, Heineken of the Netherlands at 64m, and Miller, a Philip Morris subsidiary, with 54m.

By David White In Medrid and

Spain's Banco Bilbao Vizcaya

is to strengthen its growing

presence in Latin America by

acquiring a 30 per cent stake

in Argentina'e Banco Francés

del Río de la Plata, in a deal

The purchase will bring to

more than \$1bn the invest-

ments made in Latin American

banks by BBV in the last two

years as part of a strategic reo-

rientation of the group. Banco Francés, founded 110 years

ago, ranks as the third-largest

private bank in Argentina, and is considered by many analyats as the best-run local

Agreement on the deal was

announced in Washington by

Mr Emilio Ybarra, BBV chair-man, and Mr Luis Roque Otero

Monsegur and Mr Luis María

Otero Moosegur, chairman and

vice-chairman respectively of

Under the plan, BBV will

take over management control

of Banco Frances, which has

assets of about \$3.75hn.

Frances, with 93 branches and

1,650 employees, registered a pre-tax profit last year of

\$105m in spite of the after-

effects of the Mexican devalua-

tion which dented the profits

The shares are being bought

from the Otero Monsegur family and smaller private inter-

ests. As part of the deal, these

family investors are due to

take up an unspecified number

The deal, which values

of shares in BBV.

of many Argentine banks.

worth \$350m.

David Pilling in Buenos Aires

BBV acquires

30% holding in

Argentine bank

Centrum, a local food processing company, SAB will have 20 per cent of the Polish market through Tychy and the Lech hrewery in Poznan, which they already own. SAB is the largaet brewer in Hungary, and two imminent deals will make it the leader in Romania.

SAB, which has a virtual monopoly of its domestic market, only hegan to expand outside southern Africa in 1993. It has focused on eastern Europe and China, while also pushing north in Africa. In Its fiscal year ended March 1996, it produced 24.6m hectolitres of beer in South Africa and 11.4m

Banco Francés' shares at \$29,

is awaiting approval by the rel-

evant authorities in Argentina,

Spain and the US, where both

Ms Ashley Farrar, a Ruenos

Aires-based analyat at ING

Baringa, sald BBV had

achieved an exceptional deal,

if the \$29 price tag was con-

firmed. This represented a pre-

mium of only 6 per cent over

Monday night'a closing price,

less than half the premium

paid in other recent purchases

"BBV specialises in con-

sumer retailing and has a

strong capital base," said Mr Daniel Tassan-Din, head of

research at Dentsche Morgan

Grenfell in Buenos Aires.

"This should give Francés the

know-how to be more

aggressive in taking market

share away from other retail

Francés was traditionally a

corporate bank and has only

ing retail sector in the past

five years. Analysts said BBV's

acquisition should allow

Frances access to cheaper and

longer credit lines, enabling it

BBV'e move into the Argen-

tine market is the latest step

in a series of recent initiatives

hy the group and its main

Spanish rivals, Banco San-

tander and Banco Central His-

pano in Spanish-speaking countries of Latin America. It

follows closely on completion

of BBV's purchase of a 40 per

cent stake in Banco Ganadero,

the top-ranking bank in Col-

omhia, for \$328m.

to lend at cheaper rates.

of Latin American banks.

banks' shares are listed.

abroad. Half the proceeds from the \$300m share issue will fund expansion in eastern Europe; a quarter will be spent in China; and the balance in Africa, excluding its home market

The issue is the first for cash in SAB's 101 years. Previously, shares were issued only for acquisitions

"The South African market is a massive cash cow and growing at about 4 or 5 per cent a year," one London analyst said. SAB'a developing world expertise is also a benefit in its international expan-

SAB's beer profits have risen

Dutch

bank in

talks on

unit sale

By Gordon Cramb

In Amsterdam

chant bank.

of MeesPierson".

forces two years earlier.

ABN Amro, owner of the

Govett, has been expanding its

fund management presence in

the UK, with agreements last

month to take over Causeway

Group and Carrington Pem-

broke, two independent invest-

But while the parent has

seen strong growth, MeesPier-

son has fared less well. A

reduction in operations led, for

example, to a lower contribu-

tion from its asset manage-

ment activities last year, while

operating profits overall at the

unit rose only 1.6 per cent to Fl 182m (£68.1m). This com-

pares with a group total of

F18.84bn, up 14.2 per cent.

ment managers.

R1.18hn (\$259m) in fiscal 1996. of which Ribn were from South Africa. The group, which also has retailing, hotel and manufacturing interests, achieved a 29.8 per cent return on capital last year.

Shares in SAB, the largest consumer goods company in emerging market indices, are already traded in Johannesburg and London. Investors are offered the option of new shares or American Depository Receipts, paper offered in lieu of underlying shares. Robert Fleming is the bookrunner for the deal, and Cazenove and SBC Warburg are tha brokers.

SAB and EAC have agreed to pay \$75m for a 52 per cent stake in the Tychy brewery. with the state retaining 33 per cent and 15 per cent going to

SAB and EAC have said they will invest \$115m in Tychy over the next five years. Of this, \$26m will be spent in the

next 12 months. The group's purchase of Tychy, which reported a 30.1m zloty (\$10.7m) net profit last year on sales of 226.9m zloty. gives SAB a strong position in the industrial district of Silesia, which has a tradition of beer consumption.



Jan Kalff; internal competition a problem to be solved Assets at the merchant bank, at Fl 34.1bn, represent more than 6 per cent of the ABN Amro total. They were reduced by Fl 4.1bn during 1995 as its mortgage business was sold. This removed one element of a wide overlap hetween services offered by MeesPierson and its

parent Along with rationalising the ABN Amro retail branch network, this internal competition has been seen as a problem for Mr Jan Kalff, group chairman,

"It has been an Issue whether it makes sense to integrate more closely with the parent bank or gain greater value outside with another owner," said Mr Robert Law. banking analyst with Lehman Brothers in London. "It appears they have gone down the latter route. Something was always going to have to happen.

No immediate strong candidate as a buyer emerged last night, but an institution from another European Union country was seen most likely.

issuance reaches

in London

The volume of new issues of international honds bas reached a record level already this year, with issuers taking advantage of relatively low interest rates and greater sta-

bility on financial markets. Figures for the first nine months of 1996 released yesterday hy Capital Data Bondware, a London capital markets data base, show that borrowers have raised \$509bn in new bonds, compared with \$464.6bn for all of 1995, Itself a record year. Many have already pre-funded their borrowing requirements for the

"Bnoyant underlying government bond markets, the non-inflationary environment and stable currencies have spurred strong demand for bonds," said Mr Eden Riche, a syndicate manager at Morgan Stanley, tha US investment hank.

Heavy hnying hy institutional investors has led to sharp price rises in the secondary markets. The resulting fall in interest rates - or yields - has encouraged many less creditworthy borrowers to tap tha markets.

Borrowers from the emerging markets of Latin America and eastern Europe have been particularly active, and have been able to issue longer-dated debt. Mexico and the Philippines, for example, have issued 20-year bonds in recent

"Many investors are now buying lower-rated credits than they used to, to boost their overall returns," said a dealer from a European bank.

Investors have also snapped up so-called "asset-hacked" rities - bonds secured against underlying assets, such as bank loans - which also offer higher returns than more conventional paper.

According to Capital Data. considered an authoritative source in the bond market, ahont \$65bn in ABSs have been issued so far this year. np from \$37.6bn in all of 1995. In addition, Issuance has been buoyed by the high volume of redemptions. In the dollar sector alone, some \$115bn of bonds are due to mature this year, compared with \$89bn last year.

International capital markets Page 22

Barry Riley

Pitfalls in the hunt for happier returns



Underperforming pension fund managers are this week embarking nervously on what could he a make-or-hreak final quarter. But is simply

chucking out one set of managers and hiring another a solution to the problem of poor returns? True, an investment consultancy industry has been built on that premise. But now here comes The WM Company. the performance measurement consultancy, with a revealing statistical analysis.* Trigger-happy plan sponsors should pause for thought.

WM has mined its UK database to unearth the results of manager changeovers. In particular, it has focused on municipal pension funds. where there is a legal requirement upon local authorities for three-yearly manager reviews.

It has found 25 cases since 1988 in which there has been a like-for-like change of external balanced managers with standard halanced mandates. The year of change ("event year") was mostly between 1991 and

As you would expect, the sacked managers had been performing badly. In the three years before event year their results were inferior by 2.4 per cent a year compared with the contemporaneous house average returns of the managers that eventually replaced them. You can argue, however, that it makes as much sense to dispense with the services of funds with the required three-

five-year performance league, or PDFM at the end of 1994, when it reached the same position, would have saved themaelves some later headaches. But as WM comments, there are few plan sponsors brave

Ramamber that a manager change is a two-dimensional problem. You need to be confident that the new manager will do well. But you also need to consider whether the old manager might improve. So what do the post-event

enough to do that

You can argue that it makes as much sense to sack outperforming managers

year results indicate? Pensions industry folklore tells of trustees who switch from one disappointing manager to another only to finish up, in despair, with index-trackers. In fect, the WM study is not so perversely dramatic as to show that clients jumped consistently out of the frying pan and into the fire. Rather, the results are more or less ran-

Over three years the new managers slightly outperformed (by 0.2 per cent annually on average) the house averages of their predecessors. Nevertheless, of 17 outperforming managers. Cli- year data, 10 would have Improve Performance? The WM ents who fired Newton at the achieved a hetter return by Company. Tel. 0131-315 2000

nd of 1993, when it topped the sticking with their old managers (assuming house average results).

Switching managers, therefore, typically offers a route from below-average to average performance. This is not as good as the trustees will have hoped for, but it may not seem too disappointing.

But this leaves out the ques tion of cost. When managers are changed, portfolios need to be revamped and consultancy fees paid. All too often the cost drops into a statistical hlack hole somewhere between the departure of the old manager and the arrival of the new.

Programme trading and portfolio restructuring services may minimise the costs. But WM has evidence that changeover costs are typically 2-3 per cent. This includes the total market costs of disruption, including forced selling, and identifiable expenses such as stamp duty and commission.

WM concludes that this can be a big price to pay for a marginal performance gain. Plan sponsors should be more prepared to work with their existing managers to discover the reasons for the underperformance and find ways of improving it. Perhaps redefining the mandate, or agreeing tighter risk and activity parameters, might be hetter ways of reversing the slide.

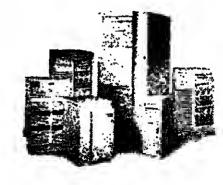
But managers currently propping up the performance league table over three or five years nevertheless know that without improvement hy December 31 the axe will be poised to fall.

Does Changing Mnnoger

MORSE

to resolve.

Unix and NT. **Brought together by** Hewlett-Packard. (And Morse).



Whilst others may regard UNIX and NT ske repelling magnets, Hewlett-Packard and Morse are bringing them together.

Both operating systems are supported within the HP range of business servers. The choice is the customer's, based on their computing needs.

Morse can integrate these systems on the same network - sharing resources and delivering applications to users through the most sensible route.



Morse Data

EUROPEAN NEWS DIGEST

KHD shares up on

Saudi settlement

Shares in Klockner-Humboldt Deutz, the German

engineering and plant group, jumped 14 per cent

yesterday to DM8.45 after it said it would not have to pay

cement plants which led to losses of DM1.06bn (\$695m) in

penalty fees on at least one of the three Saudi Arabian

May. After four months of negotiations, Mr Anton

Schneider, chief executive, had reached agreement with

the Saudi Arabian clients that the plant at Yanbu would

be finished in autumn 1997 and not earlier, the company

said. KHD would also not be liable to provide services

KHO faced penalty payments of up to DM100m on the

three plants because they were running behind schedule.

The contracts had also been hadly negotiated because the Cologne-based group might have been liable to supply unspecified extra services. KHD is still in talks to get

Michael Lindemann, Bonn

Andrew Fisher, Frankfur

7

penalty payments on the other plants at Hofuf and Rabigh waived but it is not clear when agreement might

New versions of Dax indices Deutsche Börse, which runs the Frankfurt stock

exchange, yesterday began producing versions of its main Dax etock indices without the inclusion of dividends.

Aimed at helping analysts, these will be produced twice a

medium-sized stocks. Non-dividend indices are already

Ahold, the leading Dutch food retailer, has gained a. . .

foothold in the Spanish market through a joint venture

announced yesterday with Caprabo, a privately-owned

Barcelona company. The two are to develop supermarkets

and hypermarkets in Spain and will start by taking over

islands, where Caprabo will retain its own stores. It will

10 Madrid outlets from Alfaro, another local operator.

The venture, called Store 2000, aims to build a

nationwide chain outside Catalonia and the Balearic

continue expansion on the Iberian peninsula, where

Portugal. This summer the Dutch group, owner of the

Stop & Shop in the US, and is expanding in south-east

KPN to separate cable TV. KPN, the Netherlands' privatised posts and telecoms utility, is to deconsolidate its cable television activities so that the unit can seek licences for regional fixed-line

Albert Heijn chain, concluded the \$1.8bn acquisition of

Asia and central Europe. Gordon Cramb, Amsterday

phone services. These are being granted from next July,

Vision Networks, as the present KPN Kabel subsidiary

will be known, is to hold the group's 77 per cent stake in

Casema, a large provider of cable TV services. KPN will

"for the time being" retain full ownership but said Vision

Networks would have its own supervisory board and only

week KPN and Philips, the electronics group, ended talks

aimed at combining their cable interests. Gordon Cramb

its dividend would count towards group results. This

Swedish bid talk dismissed

Svenska Handelsbanken dismissed rumours of a merger

bank, saying a merger was not being discussed between them. "Against the recent background of speculation."

about a merger between SE-Banken and Handelsbanken.

statement, that the question from Handelsbanken's point of view lacks topicality," the bank said.

Mercedes-Benz, the automotive division of Daimler-Benz,

September, while vehicle sales were up 12 per cent. In the

eight months to August, sales rose 9 per cent to DM50.9bn

(\$33.4bn). Mr Helmut Werner, chairman, said recently he

company expects to sell significantly more than 600,000

cars in the full year having seen nine months' car sales

units in the nine months, up 14 per cent. French sales

Fiat, the Italian eutomotive group, has reduced the price

of its Punto two-door hatchback model in France by 13.5

Renault announced price cuts across most of its range on

Sunday, which in turn prompted Ford to reduce the price of its saloons by between FFr5,000 and FFr7,000.

package aimed at securing customer loyalty, extended

warranties and part-exchange deals, said Mr Jean-Pierre

(Q)

C.P. POKPHAND CO. LTD.

Floating Rate Notes

due March 1999

In accordance with the provisions of the Floating Rate

Notes, notice is hereby given that for the period from 27/9/96 to 27/3/97 the Notes will carry an Interest Rate

ed in Bermuda with limited liability)
US\$150,000.000

Vaillant, director of Flat Auto France. AFX News, Ports

Fiat's commercial offensive will also include a financing

per cent to FFr51,200 (\$9,919). The move comes after

US sales climbed 19 per cent.

Fiat cuts Punto prices

rise to 470,000. Western European car sales totalled 331,000

were up 22 per cent. Sales in Japan rose 45 per cent, while

expected full-year sales to reach about DM75bn. The

Mercedes-Benz sales rise

said sales rose 9.5 per cent in the nine months to:

AFX News Stockholm

AFX News, Frankfurt

the board has decided at its meeting today to issue tink

when the parent's core business will be opened to

competitors.

Ahold runs a profitable hypermarket business in

day on the basis of prices of shares in the Dax performance index of blue-chips and the MDax index of

Spanish venture for Ahold

be reached, if at all, the company said.

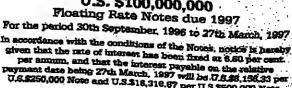
produced for the broader-based indices.

which were not explicitly mentioned in the original

of 6.65% per annum calculated on a principal amount US\$16,717.36 per Note of US\$500,000 Standard & Chartered

Bank of Greece





COMPANIES AND FINANCE: EUROPE

Aker and RGI say merger will go ahead

By Hugh Carnegy in Stockholm

Norwegian industrial groups Aker and RGI said yesterday they would merge to create one of the country's biggest listed companies just 24 hours after declaring that merger talks had broken down.

In a rapid change of heart, the two companies said they had agreed to form a new group called Aker RGI, which will have a wide range of interests including offshore engineering, fishing and fish processing, cement, shipbuilding, materials handling, sportswear and

The merger marks the increasing the end of September. If they had prominence of Mr Kjell Inge Rökke, failed this time, they could not

sports equipment

By Neil Buckley

Société Générale de

Belgique, Belgium's largest

holding company, said it

would consider merging

Tractebel, the energy and

engineering group of which

it took full control this week.

with Powerfin, a subsidiary

The group also reported an

increase in first-half net profits from BFr6.34bn to

BFr6.72bn (\$210m), in spite

of what it called a difficult

economic climate in Europe.

non, SGB chairman, said the

group had this week com-pleted the BFr49bn acquisi-

tion from Groupe Bruxelles

Lambert, the holding com-

pany, and Royale Belge, the

insurance group, of a further

25 per cent of Tractebel. The

Viscount Etlenne Davig-

in Brussels

of RGI who will personally hold a 33 per cent stake in Aker RGL

The new group will have turnover of NKr19hn (\$2.92hn) and a projected market capitalisation of NKr9bn. It will rank in Norway's top five listed companies, after Norsk Hydro, Kvaerner and Orkla. A deal was struck just before midnight on Monday after a compromise over a disagreement on price that had derailed earlier talks. Alfred Berg, Aker's advisers, and Orkla Finance, RGTs advisers, brought the two sides together in a

final attempt to reach a deal before

Tractebel.

SGB considers merger

stake to 65 per cent. He also said SGB would

consider merging the operations of Tractebel with

Powerfin, its 60 per cent-

owned subsidiary which is a vehicle for Tractebel's hold-

ing in Electrabel, Belgium's

biggest electricity generator,

and for its international

But it would take no deci-

sion until it knew the results

of a share-price support exer-

cise between October 9 and

October 30, when small

investors in Tractebel will be

given the opportunity to sell

their shares to SGB for the

same BFr14,500-a-share price

that SGB paid for its recent

Viscount Davignon said

SGB, which is 63 per cent

owned by France's Compag-

nie de Suez, had a further

expansion plans.

a further agreement on their firsthalf accounts, but would have had to wait for third-quarter figures.

Under the agreement, the merger will be carried out through the purchase by Aker of 2.15 RGI shares for every one Aker share. RGI had originally demanded a ratio of 2 RGI shares for every Aker share, while Aker demanded 2.3 for each of its shares.

Shares of RGI, which is registered in the Dutch Antilles and was only listed in Oslo in July, fell NKr5.00 yesterday to close at NKr61. Aker A-shares fell NKr0.50

to end at NKr131.50. Technically, Aker is buying RGL neering group, and a one-third

pletes a takeover of Aker which cament group. It is not clear what began when RGI first bought into Aker in February. RGI subsequently built up a 30 per cent stake, with options on a further 10

RGL or Resource Group Interna-

tional, is the vehicle through

which Mr Rökke has become one of Norway's most notable young stake in Norway Seafoods, the world's largest catcher and processor of white fish. Other core inter-

Aker RGI will bold a 51 per cent ests will be an 80 per cent stake in Aker Maritime, the offshore engi-

the founder and main shareholder under Norwegian rules have based In practice, however, the deal com- bolding in Scancem, the Nordic Aker RGI will do with its other interests.

The new group will be chaired by Mr Björn Rune Gjeisten, Mr Rökke's chief partner in RGL A. chief executive bas yet to be named. The current Aker chief executive, Mr Tom Ruud, is due to leave his post at the end of this month after being forced to quit over an earlier disagreement about

Mr Gjelsten said that Aker RGI would have substantial investment capacity, both in the Nordic region and on a European scale. Lex, Page 14



Viscount Davignon: denied the group had paid too much for its additional Tractebel stake

All three businesses contributions to SGB profits, with Fortis up from BFr997m to BFr1.21bn, Générale de Banque rising from BFr2.00bn to BFr2.30bn, and Tractebel up from BFr2.18hn

Contributions from the BFr301m. Exceptional items showed hig increases in their French companies Coficem rose from BFr333m to and Accor also increased. but Recticel, the chemicals business, fell from a BFr27m profit to BFr144m loss, and the contribution from Union Minière, the metals group, fell from BFr427m to

BFr407.

Viscount Davignon said the group would not be forced to cut the dividend this year, in spite of the size of its investment in Tracte-

World book market 'faces further consolidation'

Leading publishers

Pearson 1,748
Handom House 1,500
Inches 1,500
Planete

By Alice Rawsthorn

acquisition.

The global book market has become increasingly consoli-dated in the 1990s, with the world's 10 largest book publishing groups controlling 25 per cent of a market worth

\$80bn at retail last year. media group, is the biggest force in the industry with book sales of \$4.77bn in 1995, according to a survey published today by Euromonitor, the rasearch consul-Frankfurt Book Fair.

the world's second largest book publisher with sales of \$3.72bn, followed by Simon & Schuster, part of Viacom, with \$2.17bn and Pearson (owner of the Financial

its additional stake, empha-

sising his confidence in Trac-

He added that the acquisi-

tion meant Tractebel now

accounted for 42 per cent of

SGB'e portfolio, and took the

share of its portfolio repre-

sented by its biggest three

investments - Tractebel.

Générale da Banque, and

Fortis, the financial services

group - to 72 per cent. This

would make SGBless vulner-

able to cyclical downturns.

tebel's potential.

21 per cent of sales, with the manding 60 per cent.

to BFr2.21bn.

1990s, with total book sales also expected to increase.

Central Europe will be the largest market, worth fastest growing region, with \$25.49bn at retail last year - sales set to increase 19 per

The Americas will show growth of 15.9 per cent, to \$37bn, over the same period, largely because of a steep increase in Latin American sales.

However, Euromonitor warns that book publishers face a tough task in raising profitability, particularly in cational non-fiction.

able to sustain their titles for profit, with 90 per- 5NA. £3,950.

WINTERTHUR

PROFILE :

cent barely breaking even. Another area of concern is the CD-Rom sector, Euromonitor suspects that the majority of large publishers are still losing money on the disks, which represent a large proportion of the electronic publishing market worth \$3bn at retail last year, CD-Roms'-progress has been hampered by price sensitivity among consumers

lower than for books Publishing At The Crossdepending on 10 per cent of Britton Street, London EC1M

Bertelsmann, the German global market share during cent from 1991 to 1995, and the 1990s. Euromonitor idenshowed 8 per cent growth tifies the most highly consollast year, largely because of

Warner Book, a subsidiary of Time Warner, the US Times) with \$1.75bn. Big publishers have

steadily increased their idated markets as Spain. France and Germany, where the three largest publishers command at least 50 per cent

In the US - the world's

20 largest companies com-Euromonitor expects the large groups to continue to gain market share in the late

Retail sales rose 24 per price increases fuelled by higher paper prices. The global book market is expected to grow 10.6 per cent to

mass market fiction, where average mergins have slipped below 10 per cent, against 20 per cent for edu-It also cautions that book publishers will no looger be

and by the reinctance of booksellers to stock them. given that the margins are

traditional practise of roads: Euromonitor, 60-61

entertainment concern, is the "big three" accounted for cent - to \$1.57bn - by 2000. Winterthur advances to SFr248m

By William Hall in Zurich

Winterthur Group, the Swiss insurer, yesterday reported first-half net income up by almost a quarter, to SFr248m (\$197.8m), and said it expected double-digit earnings growth for the full year. Last year, it raised its net

profits by 15.1 per cent to

Winterthur is the third leading Swiss insurer to release its first-half results over the last week, and its profit growth falls midway between that of Zurich Insurance (which raised Its net income by a third, to SFr576.4m) and Baloise (which increased its profits by 14 per cent to SFr109m). In common with the other insurers. Winterthur's

The 11 per cent rise in life assurance premiums, to SFr5.9bn, reflected strong

markets.

have risen by 16 per cent to by 10 per cent to SFr4.4bn. The group has continued

SFT78.3bn and shareholder equity after minorities rose

to pursue its co-operation

HOENIG GROUP INC.

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Dr. Robert J. Barbera

has joined

HOENIG & CO., INC.

Executive Vice President

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Chief Economist

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orgenic growth in Switzerland and some other European markets. The group's investments

Winterthur's gross

premiums rose by 17 per

In non-life insurance the

22 per cent increase, to

acquisitions made in the

cent to SFr14.3bn.

previous year.

strong rise in investment the second biggest Swiss income reflecting the buoyancy of world stock bank. Since mid-year, the

employee benefits divisions of Winterthur Life and CS, have been combined into Winterthur-Columna, which is now the leading provider of employee benefits in SFr8.4bn, was chiefly due to Switzerland.

Winterthur is the latest Swiss insurer to publish fuller financial information at the halfway

Ιt has released consolidated half-yaar figures for the first time, but has not published complete comparable figures for 1995 because of the costs

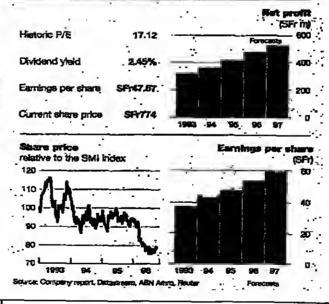
involved. However, it disclosed that while its claims ratio on its non-life business rose from

performance was lifted by a agreement with CS Holding, 73.3 per cent to 73.7 per cent. the expense ratios on both its ilfe and non-life businesses fell.

Winterthur's decision to make s much fuller disclosure of its results at the halfway stage is part of a general move towards greater disclosure by Swiss

In the past, most Swiss insurers have limited their half-year statements to general comments about premium growth and have not released profit figures until the year-end. However, there are still exceptions.

Swiss Re, the biggest Swiss insurer, which does not publish interim profit figures, has not even released Its 1995 annual



DIVIDEND NOTICE

PLACER DOME INC.

Notice is hereby given that a regular quarterly dividend, being Dividend No. 38 of seven and onehalf cents (71/4) U.S. per Common Share, has been declared payable on December 16, 1996 to shareholders of record at the close of business on November 15, 1996.

Shareholders with addraaaas in Canada will be paid the equivalent amount in Canadian cutrency, converted at an exchange rata in effect as at the record date.

BY ORDER OF THE

Sandy Mackay-Smith Vice-President Secretary and General Counsel September 18, 1996

BOARD

MARUI CO., LTD. (the "Company")
U.S.\$100,000,000 31/2 per cent. Covertible Bonds 1999
(the "Bonds")

(the 'Bonds')

Pursuant To Condition 5(c)(xii) of Terms and Conditions of the Bonds, notice is hereby given as follows:
In accordance with the resolutions of the Board of Oirectors of the Company adepted at its meeting held on 5th September, 1996, the Company issued Yen 40,000,000 convertible bonds due 2012 on 24th September, 1996, which initial conversion price is Yen 2,153 per share.

As a result of the above here the Company issued Yen 40,000,000 convertible bonds due 2012 on 24th September, 1996, which initial conversion price is Yen 2,153 per share. September, 1996, which similal conversion price is Yen 2,103 per share. As a result of the above issue, the Conversion Price of the Bonds (as defined in the Trust Deed deted 9th July, 1994 constituting the Bonds) has also been edjusted pursuant to Condition S(C)(iv) of the Terms and Conditions of the Bonds as set forth below:

Conversion Price before adjustment: Conversion Price after adjustment: Effective date of adjustment:

October 2, 1995 Chibank, N.A., as Principal Paying Agent on behalf of Marui Co., Ltd. CITIBANCO

BANQUE NATIONALE DE PARIS Programme for the issuance of Debt instruments GBP 29,000,000

ating Rate Notes dee 1958 Series 38 Transfer 1 What is hereby given that the rate of interest the period from September 30th, 1985 to comber 20th, 1986 has been fixed at 5.05313 I Care per annum, The coupon amount due orn per annum. The coupon amount due for the period is GBP 14.592.74 per denomination of GBP 1000,000 and is payable on the interest payment due December 30th, 1996.

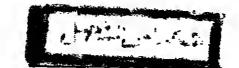
BNP Part Record Agent Banges Redien

ALLIANCE LEICESTER £200,000,000 ing Rate Notes due 1998 Increa Pariod 27th Septembe For the Interex Peatod 27th September, 1996 to 27th December, 1996, the Notes will carry a Rate of Interest of 6.00781% per annum with interest amounts of £149.37 per £10,000 and £1,493.75 per £100,000 Note, payable on 27th December, 1996.

Lead on the Leading Stock Exchange.

in accordance with the conditions of the Notes, notice is hereby given that the rate of interest has been fixed at 6.50 per cent. per annum, and that the interest payable on the relative payment date being 27th March, 1997 will be U.S.\$5,156,33 per U.S.\$250,000 Note and U.S.\$16,319,67 per U.S.\$500,000 Note. The Industrial Bank of Japan, Limited. (London Branch)

Keward relations



DIGEST eres up on Hement The Contract

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client. So instead of remembering all 39 categories, make it easy on yourself, just remember Citibank.

Degussa earnings Degussa, the German chemicals, precious metals and pharmaceuticals group, said yesterday it expected a structural reorganisation to help lift pre-tax profits by 50

EUROPEAN NEWS DIGEST

years. Preliminary pre-tax profits for the latest year ended September 30 had improved slightly from the record DM404m last time, it said. Mr Uwe-Ernst Bufe, who took over as chairman in March, said the forecast profits increase was needed to lift Degussa's return on equity to 15 per cent after tax. Degussa is grouping its 11 business units into three main divisions - chemical products, nutrition and health. and precious metals and the Degussa bank - each

reporting to the management board. The reorganisation is

per cent to about DM800m (\$524.5m) over the next three

Revamp set to lift

aimed at decentralising management responsibilities and improving overall profitability. Mr Bute said the chemical products division, which has annual sales of about DM3.9bn, expected to lift its margins from 7 per cent to 10 per cent by 1998-99. The nutrition and bealth division, which includes the Asta Medica drugs subsidiary, aimed to increase sales by 29 per cent to DM3.5bn, resulting in a margin of between 10 per cent and 12 per cent. Results for the fiscal year are set to be released on November 19. Sarah Althaus, Frankfur

Portucel to double output

Portucel Industrial, the Portuguese group which is Europe'a biggest producer of eucalyptus pulp, plans to double the output of its 70,000 ba of eucalyptus forest by 2003. The increase, from 450,000 cu m of timber a year to more than 1m cu m, is to be achieved through renewal of existing forests and the planting of genetically-improved trees. Mr Jorge Godinho, president, said this would enable Portucel to meet almost 50 per cent of its timber requirements, compared with 27 per cent today.

The group, which controls 104,000 ha of forest, including pine, cork and oak as well as eucalyptus, forecasts aubstantially stronger performance in the second half of 1996 as international pulp prices recover from a sharp fall over the previous 12 months. The company has already increased prices three times since June, after they fell in April to less than half the level of their peak in July 1995. It suffered a net loss of Es2.9bn (\$18.7m) for the first half of 1996, compared with a profit of Es8.3bn for the first six months of last year, as sales fell from Es37.1bn to Es22.8bn because of lower pulp prices. Peter Wise, Lisbon

KLM 'considers fuel levy'

KLM, the Netherlands-based airline, is considering a fuel levy on passengers to offset a sharp increase in the price of aircraft fuel, the newspaper Het Financieele Dagblad said, citing company sources. KLM is in talks with other airlines, but most members of the International Air Transport Association are against a levy on the grounds that the fuel price rise is temporary and a levy would be premature. KLM said the price of fuel had risen 30-40 per cent in recent months, noting this would raise costs by hundreds of millions of guilders. AFX News, Amsterdam

AFX News, Copenhagen

COMPANIES AND FINANCE: EUROPE

CIC ahead 61% at halfway stage

By Andrew Jack in Parts

CIC, the Brench banking the gloom in the sector when it reported net income up 61 per cent to FF:533m (\$103m) cial details of the bank for the first six months of the years

ing some indication of the ties across the country."

in the past 18 months, Portu-

gal'a big-spending banka

must now prova to share-

in size will produce greater

imento (BPI), now in its final

stages, completes a period of

rapid consolidation in which

five groups have gained con-

of Portugal'a banking assets.

Banks that were channel.

ting all their energies into

growth have now accom-

plished their takeovers,

reduced their capital and -

with some difficulty - begun

to digest their acquisitions.

The challenge now is profit-

costs, one London analyst

says. "Trading gains will

make net profits look good

this year, but we are not see-

cost structures that would

potential value of bids for

Mr Yoncourt would not group currently being priva comment on the partial tised, yesterday shrugged off sell-off, which is reaching a critical stage as potential bidders examine the finan-

However, he reiterated that the government, GAN Mr Bernard Yencourt, CIC and CIC itself were placing chairman, said GAN, the strong emphasis on the need state-owned insurer which for a buyer who would controls the bank, had respect its structure as a decided to increase CIC's "group of decentralised book value to FFr14.6bm, giv- banks with regional identi-

Portuguese banks yet

to prove might is right

Five groups now control 80% of assets but there

A Es682bn (\$4.4bn) on a over a bigger competitor. Its smallar companies and series of acquisitions; acquisition of atate-retailers.

controlled Banco Fomento e

Exterior (BFE) will more

than doubla the group's

increase its branch network

pean currency and for the

challenge of a single market

in financial services, Portu-

suffocating under the weight

of their own purchases if

they fail to cut costs

BPI, which is making a

bigger-than-expected Es30hn

rights issue and issuing a

further Es30bn in non-voting

preference shares to help

finance the BFE acquisition,

cent in the next two years.

Strategically, the merger

is considered an almost per-

fect fit. There is little over-

works of Banco Fonsecas e

Borges e Irmão (BBI), the

aggressively.

from 208 to 428 branches.

holders that their increases assets to Es3,185bn and

A Ea209 2bn purchase by As financial groups pre-Banco Portugues de Invest pare for the heavy cost of

trol of more than 80 per cent gal's acquisitive banks risk

"Most of the banks who. has much to prove to inves-

made acquisitions are simply tors. Some analysts estimate

not doing ennugh about the takeover could dilute

restructuring and cutting earnings as much as 25 per

ing the improvements in lap between the branch net-

benefit .core earnings Burnay (BFB) and Banco

BPI is following in the retail banking divisions of

fter spending into the front rank by taking plaments BPFs focus on

pare for the heavy cost of BFE last January. Aftar adapting to a single Euro-rejecting this offer, the new

is little sign of profit growth, says Peter Wise

investments made across the CIC group in small, regional

In spite of complaints from many of France's larger banks that distortions of competition make the domestic market unprofitable, CIC reported banking revenues up 5 per cent to FFT8.6bn.

One-third of that figure nnw comes from commis-

Analysts have greater res-

ervations about the Es2.615 a

share that BPI is paying.

The group offered only

Es1,740 a share - later

increased to Es1,980 - when

it made a surprise bid for

socialist government sought

competing bids, setting a

BPI bid again, competing

now with two other candi-

dates. These, however, were

rejected by the government

before the question of price was even considered. By the

time the bids were opened,

the only envelope in the tray

minimum price of Es1,980.

He added that he would sions, including FFr243m in cent of the volume of doubt expect a purchaser to the first half from the sale of ful loans during the period respect the spirit of the GAN insurance products - a including a FFr180m charge FFr2bn in venture capital partnership which must be maintained under the terms of the privatisation.

However, Mr Yoncourt highlighted yesterday the intense competition for business in France, suggesting that most banks were not respecting the norms for house loans set down last year by the Bank of France, and were lending at below cost.

Provisions rose to 82 per were continuing.

against an FFr800m loan to Eurotunnel. Provisions for doubtful property loans rose to 66 per cent.

Valmet

helped by

Buoyant global demand for

paper-making machinery

pushed up profits by 60 per

cent at Finland's Valmet,

one of the world's top for-

estry machinery makers, in

the first eight months of the

Although pulp and paper

manufacturers have been hit

by lower prices this year,

investment in new and

refurbished machines has

fuelled a powarful performance by Valmet.

It reported a rise in pre-tax profits from FM386m to

FM619m (\$135m) in the

eight months to the end of

Angust. Earnings per share

rose from FM3.51 to FM5.79. The results were distorted

by a change in accounting

which exaggerated the

increase in sales, which

were shown growing from

FM5bn to FM7.4bn. Profits

in the second four months

were lower than the first

four months because of a

FM100m one-time provision

for restructuring measures.

But Valmet said underly-

ing earnings continued to

grow. It forecast stronger

full-year profits than last

vear's pre-tax FM719m - the

fifth successive year of

improved performance -

and said the ontlook for

1997 was also positive. Val-

met shares rose FM0.70 to

In the main paper and board machinery division,

sales reached FM6.1bn.

including revenues from

sales contracts not yet com-

pleted. On a comparable

basis - including only com-

pleted contracts - sales rose

Valmet said new orders in

the first eight months totalled PM7.2bn, down

from FM8bn in the same

Four of nine orders won

during the period for com-

plete new machines were

from Asia. In September,

Valmet won an order for a

coated fine paper machine

from Hokuetsu Paper, of

period last year.

Japan.

from FM3.9bn to FM4.7bn.

FM76.50 yesterday.

buoyant

demand

By Hugh Carnegy

in Stockholm

CIC has recently combined Bonnasse, based in Marseil les, with Lyonnaise de Banque into a single subsidiary, reducing the total number of regional banks in its network from 12 to 11.

Mr Yoncourt said efforts to centralise certain functions

Portuguese banks' consolidation

Share of total assets (%): Before (end-1994)
After (current) BPA 15 BOP/BPA 20

BPI Double	s its size			
(st end-June 1	BPI	BFE	BPI &	Market Share %
	1.442	1.749	SAB5.	30
Loens	440	693	1.141	10
Deposits	188	1,037	1.718	10
Branches	208	220	428	11
THE PERSON NAMED IN	5,200	4,800	8,000	
Clients :	500,000	680,000 1,	180,000	
C 000 .				

would be competing against other bids," says Mr Fernando Ulrich, vice-president of the BPI group. "Our offer in January was only an initial bid that could have been increased if nther offers emerged.

If BPI has overpaid for a o BPTs management second-rank bank, at least it and shareholders had knows what it is getting. to swallow the unpalat-"This has not been the case able fact that they could with other Portuguese takehave bought BFE for much overs," one Lisbon analyst less. BPI is perceived to have says. "The culture of banks paid over the odds although, such as BCP has been damat 1.42 times book value, it aged by acquiring groups with holdings in non-finanlaid out less than the average 1.8 times book value cial operations in which BCP paid in comparable Portuhas no experience."

BPI also has to show it has "Our offer of Es2,615 a learned from a previous share was based on a far acquisition. When it moved footsteps of Banco Comercial BPI and BFE respectively. more rigorous examination into retail banking by buy-Portugues (BCP) and Banco. BFE's expertise in export fin- of BFE than we were able to ing BFB in 1991, the group Pinto e Sotto Mayor: it is a ancing and lending to large carry out before. We were relatively small bank leaping industrial companies com- also convinced that we took longer than expected to turn the purchase round.

Although analysts praise BPI's success in improving BFB's asset quality, they had boped for more aggressive cost-cutting.

"Five years ago we were an investment bank with a ataff of 200 people taking over a retail bank with 3,500 employees and a host of problems," Mr Ulrich says. "Now we can use that experience to achieve synergies and cost rationalisation at BFE, which, unlike BFB in 1991, is already a very sound hank."

Achieving this would be the success that investors hope will confound analysts' gloomy assessments of the progress of Portuguese bank mergers. "We are hoping one of the groups will prove us wrong," a London analyst says. "But we haven't seen it happening yet."

Novo Nordisk buys patents

Novo Nordisk, the Danish biotechnology group, said it was acquiring the industrial enzyme patents and technology of Showa Denko of Japan. Showa Denko had decided to withdraw from the industrial enzyme business

Rewarding relationships WORLDWIDE



guese bank acquisitions.





BEST BANK IN **EMERGING MARKETS**



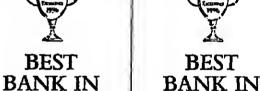
BEST BANK IN **ASIA**



BEST **BANK IN** LATIN



WESTERN **AMERICA**





BEST **BANK IN AFRICA**



BEST FOREIGN BANK IN **ARGENTINA**



FOREIGN BANK IN CANADA



FOREIGN BANK IN



THAILAND



FOREIGN BANK IN UK





THE MIDDLE

EAST

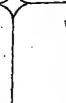






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AMERICAS NEWS DIGEST

Coca-Cola shares

Shares in Coca-Cola, the US soft drinks group, fell \$1% to

\$40% in early trading yesterday after the company said it

previously-announced unusual gains. The decline came in

spite of the company's statement that it expected to meet

its goal of 7-8 per cent growth in worldwide volume this

year, with earnings per share growth in the upper teens

to 20 per cent range.

Less than two weeks ago, Coca-Cola stock slipped from

volume would grow at a slower than expected 6-7 per cent in the third quarter. It subsequently said it would record a \$320m gain after tax because of a favourable tax

settlement with the US internal revenue service, and a

Yesterday Coca-Cola said it had decided to take

reduction in concentrate inventories at its bottlers.

in implementing an information technology upgrade

advantage of the unusual gains by strengthening its

global operations with a series of measures that would cost \$420m-\$450m after tax. These would cover a one-time

costing \$180m-\$200m; a \$60m provision for costs incurred

called Project Infinity; and provisions for previously announced structural changes at Coca-Cola Foods, costing \$180m-\$200m.

Richard Tomkins, New York

further \$200m after tax in connection with transactions by

recent highs after the company warned that global

slip on warning

would take a series of special charges against

third-quarter profits, almost offsetting some

take on AT

AT&T

In \$2.

Buyou

COMPANIES AND FINANCE: THE AMERICAS

Wells Fargo 'most profitable bank', IBCA says

Wells Fargo, the California retail bank, was the most profitable bank in the world last year after adjusting for different inflation rates and ratios of capital to assets, according a new study.

The survey by IBCA, the European bank rating agency, found that Wells Fargo last year pushed into second place Hang Seng Bank. the Hong Kong bank part-owned by

HSBC Group, that has been leader in IBCA's annual survey over the on capital to reflect a constant past two years.

United Overseas Bank of Singapore was third, with Den norske Bank of Norway in fourth place. are more profitable than European counterparts, if the adjustments

profitable in real terms, rather financial markets into improved

are taken into account.

equity to assets ratio of 5 per cent.

The effect is to lift the apparent profitability of less highly-geared banks, particularly those in Asia. The study shows that Asian However, the listings are not banks outside Japan and US banks adjusted for the effects of economic cycles on asset quality.

 European banks have started to translate their heavy investment in It aims to show which banks are building a presence in the US than benefiting from high infla- positions in underwriting league

tables, according to data for the first nine months of 1996, writes does not reflect profitability, the Tracy Corrigan in New York.

Union Bank of Switzerland and help banks win new business. Deutsche Morgan Grenfell have both broken into the top 10 among US domestic investment grade corporate debt underwriters, with market shares of 2.7 per cent and 2.2 per cent, respectively, according to Securities Data. They jumped from 13th and 14th place in the same period last year to 9th and

Although league table position tables are closely watched and can

The task is even more daunting in equity underwriting. Deutsche Morgan Grenfell made it into 18th place, with a 1 per cent market share - a considerable leap from 125th for the same period last year. NatWest Markets came in at 20th place, helped by its acquisition of Gleacher, the mergers and acquisi-

GSM poised to become world standard

By Alan Cane in Berlin

An initiative to improve

A group of 12 leading

Intel, Microsoft and Compaq as mobils phone networks yesterday agreed to ensure compatibility between their equipment and networks

move from the older analogue type to digital systems. If the MDl is successful, it

The US has no digital standard, hut it already has about 100,000 GSM users and

for another standard to become established.

Speaking at the Etre comwill remove the technical and market barriers to wireless computing over ths

GSM network. The MDI group gave no details of the funding for the initiative but said the chief objectives would be to raise awareness of mobile commu-

The other members of the group are the squipment suppliers Ericsson and Nokia, Toshiba of Japan and European GSM operators Cellnet and Vodata of the UK and DeTeMobil and Man-

Onex to buy IBM computer parts unit

Intsrnational Business Machines has agreed to sell Celestica, its Toronto-based computer parts business, to a consortium led by Onex, the Canadian investment holding group. The deal is valued at ahont C\$750m

Celestica, with 1,000 employees and annual revennes of about C88bn, produces computer memory devices and power systems. Most of its sales are to IBM, hnt it also manufactures under contract to other computer groups.

The company was established in 1994 as an independent business unit of IBM. Commenting on the sale, IBM Canada said Celestica

had reached a stage where independent ownership was the next logical step. Onex, whose interests range from international

airline catering to automotive parts and parking garages, said yesterday it planned to expand Celestica rapidly "so it will be better able to serve IBM and its other customers on a global scale". However, Onex plans to lower Celestica's dependence on orders from IBM.

Onex said it would invest at least C\$100m in Celestica, making it the biggest sharebolder with voting control. Other sharebolders will include unidentified Canadian financial institutions and Celestica's manage-

ment Onex is controlled by Mr Gerald Schwartz, a financier another multi-billion-barrel who is also a prominent ing Liberal party. Bank of Nova Scotia will

provide debt financing for the purchase as well as Celestica's future growth. Onex said it expected the purchase to be completed Christopher Parkes | within 60 days.

Kiwi files for Chapter 11 Kiwi International Air Lines, one of the more prominent of the low-cost carriers to have appeared in the US over the past few years, has filed for Chapter 11 bankruptcy protection after running out of cash. It blamed an accumulation of debt through the airline's first three years of operation and the crash of a ValuJet Airline aircraft in the Florida Everglades in May, which shook confidence in low-cost airlines.

Kiwi started operating as an employee-owned airline in September 1992, but was undercapitalised and riven by disputes between its founders. This summer, Kiwi's troubles worsened when it was forced to ground four of its 15 Boeing 727 aircraft after a Federal Aviation Administration inspection found shortcomings in its pilot training and record-keeping procedures.

Late on Monday, Kiwi said it planned to keep operating on a reduced basis during its bankruptcy with the aim of emerging as a stronger company. The company said it was in the process of securing at least \$5m in debtor-in-possession financing in an effort to reorganise,

Ivax in \$20m cost-saving plan

Ivax, the US pharmaceuticals group, expects to report a third-quarter loss of about \$35m before taking a \$13m restructuring charge into account. The company said the restructuring of its US generic pharmaceutical business included job cuts, facility consolidations, and other cost-saving measures. It will reduce costs by about \$20m.

In addition to the restructuring charge, Ivax said high inventory levels and declining prices for generic drug products would influence its third-quarter results, while a customer owing the company about \$16m filed a Chapter 11 bankruptcy petition during the third quarter. Existing reserves of about \$6m will be increased by

about \$7m. Ivax said it expected to see "substantial improvement" in its consolidated operating results for the fourth quarter.

Pfizer to merge operations

Pfizer, the US pharmaceuticals group, is merging its US and overseas operations to form Pfizer Pharmaceuticals Grown, which "will be manas d as a single global business", said the company. The new organisation will be headed by Mr Henry McKinnell, executive vice-president of Pfizer Inc. the parent company.

Mr Robert Neimeth, currently president of the International Pharmaceuticals group, which runs the non-US business, retires at the end of the year.

puter conference yesterday, through the Mobile Data Iniwill greatly improve the tiative. The aim is to make it Mr Hans Geyer, Intel's general manager for Europs, said: "Our [MDI] memhers simpler for travellers with the world standard for notebook computers to send mobile voice and data tele-

communications between personal computers and mobile phones looks set to confirm the European standard for mobile digital telephony, known as GSM, as the world standard.

information technology com-panies - including IBM,

Russia and Algeria.

higgest oil concern.

ia's Sonatrach, and this

month with Lukoil, Russia's

to lead a joint exploration

drive in Arco's traditional

The state has served Arco

well since the late-1960s.

When the company was only about a year old, its explora-

tion teams discovered 14bn barrels of reserves in Pru-

dhoe Bay - the biggest

strike in US history. The lit-

tle independent was sud-

drilling grounds in Alaska.

electronic mail and data phony. across Europe's GSM net-GSM is now the standard in 105 countries worldwide computer companies are

Arco digs deep to tap hidden reserves Until foreign ventures bear fruit the US group must further exploit its US resources

tlantic Richfield, the As exploratory drilling A leading petrol sup-plier in California's Slope, from where results highly-motorised market- are due to be announced place, has bet heavily this next month, the company set year on prospering in the about implementing a politically-risky oilfields of "stretch" project in which It aims to find new reserves, It bas so far committed probe for extra supplies in more than \$5bn to joint existing fields, and use new

Last week, Arco took out production and revenues an insurance policy with a at the levels necessary to see more familiar partner, Ana-darko of Houston, which is its overseas ventures to frui-

Arco's assiduous attempts fruitful than most. Until this year production was held stable, even though total output from Prudhoe

denly a big player, and is now the seventh-largest oil After 10 years during rocks of one Alaskan field, group in the US. which Alaska bas yielded a for example, and increase steady 400,000 barrels daily production by 10 per cent. for the Los Angeles-based ore than 40 per cent of its production total -

output has begun to shrink. Arco's Alaskan crude production will fall 6 per cent this year and the decline will continue at that pace for the next few years at least, according to the company.

exploration and extraction technologies to squeeze ventures - first with Alger extra oil from existing underground reservoirs.

decline by 1999 and maintain

to make the most of its US resources, including drilling satellite wells around the big fields, bave been more Bay has been falling more than 10 per cent a year for a The company recently

announced a plan to inject It has also pioneered the developed in its home state's Silicon Valley, which allow areas of rock around existing deep wells to be minutely examined for nearby

Now, Anadarko, which has is already working virgin

Limited (PP Rust)

Results of capitalisation shares awards and rights of

election to receive instead final cash dividends

The rights of election to receive final cash dividends instead of the awards of

capitalisation shares were made to sharebolders registered at the close of business on

Friday, 23 August 1996. Details relating to each company are set out below. The new shares will be listed on The Johannesburg Stock Exchange from the commencement of

business on Wednesday, 2 October 1996 and, where applicable, on the London Stock

Exchange as soon as practicable. Share certificates for capitalisation shares and cheques in respect of the final dividends and fractional payments will be posted to

Capitalisation shares were awarded on the basis of 2.218359 shares for every 100

existing chares held. Elections were received for a final cash dividend in respect of

40,175,681 shares. Accordingly, the final cash dividend of 65 cents per share has been

declared on those shares and 2,987,703 new shares have been allotted in terms of the

capitalisation share award. Following the issue of the capitalisation shares the issued share capital of Amplata will consist of 177,844,164 ordinary shares of 5 cents each.

Capitalisation shares were awarded on the basis of 2.045132 shares for every 100

existing shares held. Elections were received for a final cash dividend in respect of

9,128,406 shares. Accordingly, the final cash dividend of 150 cents per share has been

declared on those shares and 2,451,379 new shares have been allotted in terms of the

capitalisation share award. Following the issue of the capitalisation shares the issued share

Capitalisation shares were awarded on the basis of 2.347791 shares for every 100

existing shares held. Elections were received for a final cash dividend in respect of 17,820,360 shares. Accordingly, the final cash dividend of 50 cents per share has been

declared on those shares and 2,540,382 new shares have been allotted in terms of

the capitalisation share award. Following the issue of the capitalisation shares

the issued share capital of PP Rust will consist of 128,585,617 ordinary shares of

التناهية فالمستستسخ والهوالسوك للصابات والمعادية المتعادية أميا ليتهيب ليراك والمتحادي

capital of Rustenburg will consist of 131,443,903 ordinary shares of 10 cents each.

Potgietersrust Platinums Reg. No. 01 08353 06

Anglo American Platinum Reg. No. 59/02518/06

Rustenburg Platinum Reg. No. 05 22452/06

shareholders on Wednesday, 2 October 1996.

2.5 cents each.

Johannesburg

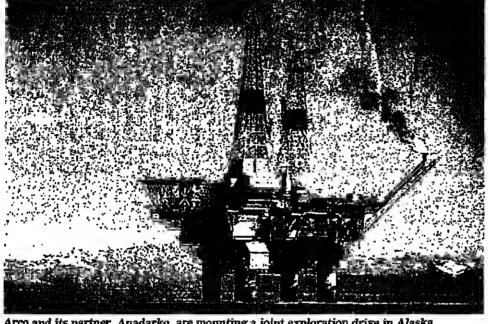
Auglo American Platinum Corporation Limited (Amplats)

Rustenburg Platimum

Holdings Limited (Rustenburg)

Potgietersrust Platinums

(All companies incorporated in the Republic of South Africa)



Arco and its partner, Anadarko, are mounting a joint exploration drive in Alaska

areas of the North Slope in harness with Arco, bas signed a two-year alliance to apply its vaunted seismic exploration technologies in Cook Inlet, Alaska's oldest oil-producing region.

details were not disclosed, the Texan group has accepted a payment-by-results agreement under which the California company will share any

The deal marks a further

contraction in Arco's "big fields - the difficult part is strike" strategy which to find and exploit them marked its early successes in Alaska. The Kuparuk field, discovered two years after nology belps. But even the the Prudhoe Bay find, had most brazen oil industry estimated reserves of 2.2bn optimists rate the chances of barrels, but the last big discovery. Point McIntyre opened in 1989, had only 350m barrels.

Although the Department of Energy estimates twothirds of US oil reserves are still underground - with large volumes waiting to be discovered close to existing

discovery in Alaska at no more than 2 per cent. At those odds, Arco's gambles in the company of Lukoil and Sonatracb seem less extravagant than the

profitably.

political risks might suggest.

As Arco has found, tech-

Millennium America Inc.

(formerly Hanson America Inc.)

2.39% Senior Exchangeable Discount Notes Due 2001 **Exchangeable for American Depositary Shares** Representing Ordinary Shares of Hanson PLC

Reference is made to the Indenture, dated as of March 1, 1994, by and among Millennium America Inc. ("Millennium America", formerly Hanson America Inc. ("Hanson America")), Millennium Chemicals Inc. ("Millennium") and The Bank of New York, as Trustee (the "Trustee"), relating to the 2.39% Senior Exchangeable Discount Notes Due 2001 (the "Notes"), as amended by the First Supplemental Indenture, dated as of May 16, 1994, the Second Supplemental Indenture, dated as of September 18, 1996 and the Third Supplemental Indenture, dated as of October 1, 1996 (as amended, the "Indenture").

Effective as of September 18, 1996, the instruments governing the Notes (collectively, the "Note Instruments") were amended to (i) specifically permit the demergers by Hanson PLC ("Hanson") of its chemicals, tobacco and energy businesses without compliance by Hanson America or Hanson, as the case may be, with certain covenants in the Note Instrumens relating to consolidations, mergers or transfer of assets, (ii) specifically permit the prepayment by Hanson America of the US \$2.25 billion loam from Hanson Antilles N.V., an indirect wholly owned subsidiary of Hanson, to Hanson America on or after October 1. 1996, (iii) provide that the delivery by Millenium of certain financial information will satisfy the covenant set forth in the Indenture to deliver financial information in respect of Millennium America, and (iv) eliminate the limitations in the Indenture on the grant of security interests in the assets and properties of Millennium America or its subsidiaries and the limitations on incurrence of additional indebtdness by subsidiaries of Millennium America.

Effective as of October 1, 1996, Millennium has guaranteed the obligations of Millennium America under the Indenture.

Notice is also hereby given to Holders of the Notes that, as a result of the payment of a dividend of Common Stock of Millennium and Ordinary Shares of Imperial Tobacco Group PLC to holders of Ordinary Shares of Hanson and holders of Hanson American Depositary Shares ("ADSs"), the ADS Ratio (as defined in the Note Instruments) applicable to the Notes is now 55.712 Hanson ADSs per US\$1,000 principal amount due at the stated maturity of the Notes. I'ne adjusted ADS Ratio is effective October 2, 1996. The ADS Ratio was previously 33.741 Hanson ADSs per US\$1,000 principal amount due at the stated maturity of the Notes.

October 2, 1996

LEGAL NOTICES

A M FLINT SCENERY COMPANY LIMITED NOTICE CHEREST CIVID passuant to Section 98 of the intributions of 1986 that a Mercing of Cardinos will be held at the citizen of Rations Risches, 1986 CDy Road, London ECV 241, on 14 Cardon 1976 at 3,30pm for the purposes necessioned in Sections 93, 100 and 101 of the said Act.

A ligt of the names and addresses of the company's creditors will be available for impection, free of charge, at the officer of Robon Rhodes, 186 Gay Road, London SCTV 2840 on 10 and 11 October 1996 between the hours of 1000 and 1600 hours.

PERSONAL

PUBLIC SPEAKING

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Britannia

Floating rate notes 1997 For the period 30 September

\$150,000,000

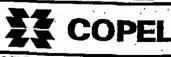
the notes will bear interest at 6.11875% per annium. Interest payable on the relevant interest payment date 30 December 1996 will amount to £152.13 per £10,000 note and \$1,521.33 per \$100,000 note.

Agent: Morgan Guaranty Trust Company

JPMorgan

CONTRACTS & TENDERS





SALTO CAXIAS HYDROELECTRIC POWER STATION INTERNATIOAL COMPETITION C-225. **ELECTROMECHANICAL ERECTIONS** DELIERY DATE POSTPONEMENT COMPANHIA PARANAENSE OE ENERGIA-COPEL, informs that the delivery date of the instructions to Bidders and the Contract Documents referring to International Competition C-225 was postponed to October 17, 1996 at 2.00 PM, at COPEL's office meeting room, in Curitiba, at 233 Voluntários da Pátria Street, ground floor, in ths State of Parana, Brazil,

All other provisions of the Instructions to Bidders remain unmodified.



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OCTOBER 2 1996

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ost-saving plan

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HAR TIESE The favourate has peyenue -- " wis By STEVEN A. ROSENBUSH France said yesterday it agreed to sell its stake

the equipment-financing and leasing company 85% owned by AT&T, said

Thursday that it is being bought by a group of leasing companies and managers in a deal valued at \$2.2 billion in cash. AT&T Capital shareholders will receive \$45 for each of their shares. The purchasing group includes members of ATAT Capital's senior management. San Em

AT&T Plans to Sell Leasing Unit for \$2.2 Billion

AT&T corp., communing to true oper

A Look at AT&T Capital Company Fundamentals

Stock Performance White disciplination that I with the TOO

AT&T strikes \$2.2B deal to sell Capital

Managers buy 5% stake, say no to layoffs

BY RON DAY

A CONTRACTOR OF THE PROPERTY O

group of investors and company September, calls for b managers in a deal worth \$2.2 billion. The sale of the \$1.6 billion

company - 86 percent owned by AT&T - will not result in layoffs or the company's departure from offices in Motristown and Parsippany, where 1,000 are employed, Thomas Wajnert, Exchange, AT&T Car ORRISTOWN - AT&T has AT&T Capital Corp. chairman million shares and ?

\$45 per share of Capi That is a slight pren AT&T Capital's \$41value at the close of st Wednesday. Yesterday ital's shares were up S. trading on the New Y.

T&T Capital 432.2 Billion **Buyout Deal**

By KENNETH N. GILPIN

The AT&T Capital Corporation, which has been on the block since September, agreed yesterday to a \$2.2 billion leveraged

The purchasing consortium, in addition to 31 senior AT&T Capital officials, is made up of the CRS Holding Company, owner of a British leasing concern, and Babcock & Brown of Sau Francisco, a leasing, asset and project flusheing advisory firm.

The sale of the equipment leasing unit is another milestone for AT&T, which delighted Wall Street when it announced a sweeping reorganization in September. The sale of AT&T Capital is one part of that revamping, but analysts said yesterday that they were surprised it took as long as it did.

Executive consortium buying AT&T Capital

NEW YORK - AT&T Capital the breakup was announced last buyers include AT&T Capital Corp., which has helped thousands September, although at a practical managers as well as GRS Holding

water 2 which owns a rail loss

Detroit Free Press, June 7, 1995

AT&T Capital to be sold

A leasing and finance company controlled by communications giant AT&T will be sold to its top managers and an investor group for \$2.2 billion in cash. AT&T Capital was founded in 1985, mainly to finance sales of AT&T equipment. It has become one of the largest sources of money for communications systems, operating in 20 countrans in North and South America. Funde and Asia

Cohen York Dary News, UR monited win benness; A Capital Idea

AT&T Capital Corp., which has helped thousands of companies pay for communications equipment, will be sold to its top managers and an investor group

Investor's Business Daily, June 7, 1956

AT&T Will Sell AT&T Capital To Execs For Estimated \$2.2 Bil

MORRISTOWN, N.J. (Bloomberg) - AT&T Corp. will sell its AT&T Capital Corp. finance unit to a group of leasing companies and managers for an estimated \$2.2 billion, ending a surprisingly successful eight-month search for a buyer. The participation group, we see the dipe Ch.

With all that's been written about the sale of AT&T Capital, we could think of only one thing to add.

Our thanks.

Now that AT&T Capital is privately owned, we'd like to express our sincere appreciation to everyone who has contributed to our success. We'd especially like to thank our customers and members for their tremendous support during our ownership transition. We also want to thank AT&T for launching us 12 years ago and helping us grow. Although we're no longer an official part of the AT&T family, we're proud to continue carrying the AT&T name as one of the world's leading providers of equipment leasing and financing services.

Inside USA: 1 800-235-4288 Outside USA: 201-397-3208 Internet address: http://www.att.com/capital

AUSTRALIA



LATIN AMERICA NORTH AMERICA

Coles Myer, Australia's biggest retailer and the focus of an institutional battle over corporate governance of Coles' Kmart stores. standards last year, yesterday announced a 33.8 per cent fall in after-tax profits. from A\$423.4m to A\$280.4m (US\$221.9m), in the year to July 28.

The sharp fall came after net extraordinary losses of A\$31.5m, wider than last time's A\$12.2m. This largely reflected a A\$43.4m charge for restructuring the loesmaking World 4 Kids toy chain, which was set up to meet the entry of Toys 'R Us. the US retailer, into Australia three years ago.

However. Coles insisted yesterday it was still committed to the Australian toy and leisure market and contrary to some speculation

keeping some stand-alone W4K stores, although the brand would also operate out

However, an unspecified number of outlets within the 23-store W4K chain would be changed to house other Coles' businesses, such as Officeworks, the office equipment retail chain. Coles' profits drop came in

epite of an 8.2 per cent A\$97m. increase in sales, to A\$18.2bn. At the pre-interest level, profits from the retail operations alone were almost 15 per cent lower, at A\$534.6m down from A\$627.8m, with good results from the supermarket and liquor divisions offset by sharply lower profits from Kmart and Myer Grace Bros, the up-market department

 would retain the W4K
 In the food and liquor brand. This would mean businesses, trading profits rose 13.5 per cent to A\$287.6m. By contrast, weak apparel sales and heavy discounting pushed Kmart's profits down 59.5 per cent to A\$51.8m. Similar factors drove Myer Grace Bros' trading profit 26.8 per cent lower to A\$90.2m. The W4K loss

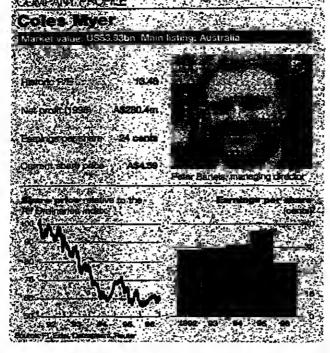
> A downturn in earnings from the property division which made A\$113.7m compared with A\$133.7m - also contributed to the poor overall result, while "unallocated" coets rosa from A\$31.6m to A\$69.9m.

stood at A\$\$5.8m, against a

A\$33m deficit last time, with

the chain's sales standing at

However, Mr Peter Bartels, chief executive, defended the results, saying the Austradifficult" for retailers. He Coles' performance.



said the spate of boardroom and management changes, which flowed from the corporate governance furore, had not had a big impact on

Concerns about the emer-

"If you look at the market share that's been gained, if you look at tha way tha businesses are operating, I think

paper companies' sharehold-

ings in wholesalers have

kept the market closed to

New Oil and Honshu,

which have complementary

product areas, have agreed

measures with the JFTC

risk of the new company

monopolising the market.

These include a reduction in

foreigners.

Ratings pressure on Sampoerna group debt

By Manuela Saragosa in Jakarta

Sampoerna, the Indonesian clove cigarette manufacturer, has been placed on CreditWatch by Stanwhile dard & Poor's. Moody's Investors Service has changed the company's debt rating outlook to negative from stable.

The rating actions follow HM Sampoerna's acquisition of 2.85 per cent of Astra International, the cars-toplantations conglomerate. That acquisition followed the recent purchase of a 9.81 per cent stake by HM Sampoerna's president director and controlling shareholder, Mr Putera Sampoerna.

The acquisitions have raised questions about Mr Sampoerna's motives and the future of Astra, which faces intense competition from Indonesia's so-called "national" car.

President Suharto's youngest son, Mr Hntomo Mandala Putra, has been awarded tax and tariff hreaks not available to other car manufacturers to produce the car in co-operation with South Korea's Kia Motors. Astra hlamed the national car plan for its flat first-half net profits, announced in August.

Standard & Poor's said the objective of HM Sampoerna's investment in Astra was "nnclear", and "ontside tha expected expansion parameters" of the company. It said this "could lead to a rating downgrada" of the company's debt. In a similar vein, Moody's said tha acquisitions could create "additional business risk"

for HM Sampoerna. It is hoped the change in ratings ontlook will put messure on Mr Sampoerna to explain the share acquisitions, which have gripped the market in the past week. Analysts say it is unclear whether Mr Sampoerna, who until recently had no interests in the automotive sector, is acting as a frontman for the entry of politically powerful share-

holders.

ASIA-PACIFIC NEWS DIGEST

Ansett chief sees return to profit

Mr Ken Cowley, executive chairman of Ansett Australia, said yesterday he was "optimistic" that the lossmaking Australian carrier could move back into profit in the current 12 months - with the arrival of Air New Zealand as co-owner "improving the opportunities". However, both Mr Cowley and Mr Jim McCrea, Air New

Zealand's chief executive, yesterday played down any likelihood of Ausett Australia being floated as a separate. listed entity, as had been mooted. "There are no plans at the moment," said the Anseit chairman, who will sten down in January. The comments came as Air New Zealand formally signed a commercial agreement with Ansett Australia, covering code sharing and other operational matters. This allows the new ownership Nikki Tait, Sydney structure to come into force.

NZ bank down 30% halfway The National Bank of New Zealand, a wholly-owned

subsidiary of Lloyds-TSB of the UK, yesterday reported a 30 per cent fall in first-half profit, to NZ\$41m (US\$28.7m). The lower profit was foreshadowed last month by Sir John Anderson, chief executive, who warned that staff cuts were imminent as the bank faced reduced interest margins and rising costs.

HSBC looks for growth in NZ

Hongkong and Shanghai Banking Corp is about to embark on a more aggressive hid to build its New Zealand business, focusing on Wellington. It said yesterday it hoped to maintain its performance in the country at present levels after a 306 per cent surge in operating profit to NZ\$7.04m for the six months to June. Terry Hall

No surprise at Sino Land

Sino Land, one of Hong Kong's biggest property developers, yesterday reported a 60 per cent drop in net earnings for the year to June 30, from HK\$2.87bn to HK\$1.15bn (US\$148.7m), broadly in line with market. Louise Lucas, Hong Kong

Jardine Fleming resignation

A director of Jardine Fleming Investment Management, the fund management arm of the Hong Kong merchant bank, has resigned. Jardine Fleming said Mr Thomas Chan, head of operations and services at JFIM, was leaving for personal reasons, and that his departure was not connected to the recent trading scandal at the John Ridding, Hong Kong

Westpac buys back Ampac

Westpac, one of Australia's biggest commercial banks, has paid a "provisional" A\$342m (US\$270.6m) to buy the Ampac Life business from the AMP Society, Australia's largest life insurer. The two companies announced in July they were calling off a strategic alliance set up five years ago, and that as a result Westpac would exercise an option to buy back Ampac Life.

WMC sells oilfield stakes

WMC, the Australian mining group, said yesterday it would sell its Thevenard oil assets – including 10 per cent stakes in Roller/Skate and Saladin oilfields off the Western Australian coast – to a subsidiary of Royal

New Oji and Honshu Paper in merger

By Michlyo Nakamoto in Tokyo

Japan's largest paper company, and the thirdlargest in the world in sales terms, was created yesterday with the merger of New Oji Paper and Honshu Paper. The oew company. Oji Paper, is expected to bave

consolidated sales of about Y1,300bn (\$11.7bn), a share of about 20 per ceot of the domestic paper market and 13 per cent in paperboard.

By Lisa Vaughan

ended March 31.

in the current year.'

in New Delhi

Mr Masahiko Okuni, president of Oji Paper, said the merger was aimed at surviving the "borderless age" of the paper industry.

The Japanese paper market, which is the third-largest in the world after the US and Europe, is dominated by domestic manufacturers which are generally not costcompetitive in international

The merger is the latest the Japanese paper and pulp pon Paper Industries.

Higher earnings in Indian Oil's six of the country's 14 refineries, and

industry. Japan's paper companies, which were broken np after the second world war, have joined hands again over the past several years, spurred by the need to increase efficiency and survive growing international competition.

New Oji Paper was formed by the 1993 merger of Oji Paper and Kanzaki Paper Manufacturing, Sanyo Kokueaku Pulp and Jujo Paper step in the reorganisation of also merged in 1993 into Nip-

gence of monopolistic groups, however, have long prevented the Japan Fair Trade Commission from approving mergers in the industry. Paper companies have been required to meet condi-

shares in distribution companies and the lowering of market shara in particular sectors, before a merger. The JFTC has been partic-

refining market. It satisfies 55 per

cent of India's demand for petroleum

products and is the importing

Mr Avadhoot Sabnis, a stockbro-

ker with ING Barings in Bombay,

said the company's anticipated prof-

its for the current year were well

above expectations and that this

would position the company well for

privatisation. He said 1997-98 would

be a "phenomenal" year for the com-

agency for crude-oil and petroleum

their boldings in wholesalers and a shift in prodoction of ularly sensitive to criticism

tions, such as the sale of designed to minimise the

Indian Oil expects further sharp increase has a 40 per cent share of the exports last year, mainly in aviation fuel and marine lubricants. Its refineries processed 25.6m tonnes of crude oil in 1995/96, np from 25.2m, achieving 105 per cent utilisation of capacity. Product sales climbed 11.5

per cent to Rs438bn. The company was awarded a contract to operate an oil terminal in Zambia and has earmarked investments of more than Rs250bn, including a new refinery on India's east coast with Kuwait Petroleum Corpo-

It also plans to invest Rs38bn in Indian Oil earned Rs18.9bn in expanding three refineries.

Indian Oil Corporation, India's

largest state-owned oil company.

yesterday predicted it would

increase profits sharply in the cur-

rent financial year, after announcing

a 23 per cent jump in after-tax prof-

its to Rs12.5bn (\$357m) for the year

Mr S. C. Mathur, finance director, said: "We are doing very well. We

expect profits to be Rs18bn after tax

This information appears as e matter of record only geable bonds described below have already been of

core areas of refining, pipelines and

product sales were responsible for

the increase in profits, said Mr

Pre-tax profits rose 29 per cent to

In 1995 Indian Oil became first

etate-owned enterprise to offer

shares to the public. Privatisation is

a central plank in the Indian govern-

ment's economic policy. The only Indian company in Fortune Magazine's "Global 500" ranking of

tha world's largest companies,

Indian Oil owns and operates

R. K. Narang, chairman.

Dresdner Finance B.V.

Amsterdam, The Netherlands

DM 500,000,000 21/4% DM Exchangeable Bonds of 1996/2001

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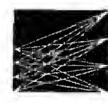
Morgan Stanley & Co.

Société Générale, Frankfurt

All of these securities basing been sold, this advertisement appears as a matter of record only.

October 1996

3,300,000 Ordinary Shares



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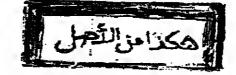
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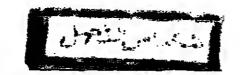
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tate for Admir

is fee of USS 500 in the form of a banker's certified ch est be delivered to the above office on or before 12:00 hrs local time on M ed in public session at 12 kes local time on Monday the 18/11/1996 at the





House of Fraser makes provision for revamp

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DNS LITT

Concern about the likely

based upon what happened when Hanson demerged its portfolio of smaller US manufacturing businesses. US industries (USI), on June 1

RESULTS

By Chris Brown-Humes It also promised an overhaul of merchandising, House of Frasary the lower head-costs and refurdepartment store group, is bishment costs for the stores heading for a fall-year loss after making provisions yesit plans to keep.

terday of up to £50m (\$78m) MeesPierson, the Amsterto cover closures, job losses dam-hased merchant bank, and stock write-downs. said: "There's a lot of hope It said yesterday it was deferred and a lot of sceptisaid: "There's a lot of hope likely to close between five cism based on their recent and 10 of its 51 stores as part, "underperformance." of a recovery programme. The strategic review was

high costs.

The group's biggest problem has been the poor performance of its own-label women's wear ranges.

leader in the manufacture of

Rico is expected to

ond half with its four-month

contribution. It has just over

lost market share, over-reli- and indistinct buying briefs. Mr Nick Bubb, analyst at ance on concessions, and This was part of a broader problem - tha group "didn't sales. really know which custom-

COMPANIES AND FINANCE: UK

ers it was targeting". It plans a tighter focus, aimed particularly at above In the first haif, own- averaga spenders including bought women's wear sales career women, young fash-

The intention is to lift the proportion of own-label

"We are aiming to be more upmarket than Dehenhams and more fashioo-orientated than John Lewis," Mr Cole-

House of Fraser said the als - after £14.3m last year.

unveiled by Mr John Cole- fell 14 per cent, while sales ion lovers and more mature impact of the overhaul haul of merchandising, man, brought in as chief from in-store concessions women. In men's wear, it is would start next year before executive in May against a rose 29 per cent. Mr Coleman targeting career men and taking full effect in 1998. background of falling profits, blamed poor management smart casual "label lovers". Estimated restructuring costs of £40m-£50m repre-

sented a worst-case scenario. Analysts expect a large chunk of the provisions to be used to deal with the problem of unwanted stock. They predict profits of £14m-£17m this year - before exception-

Improved margins for Boosey

By David Blackwell

musical instrument and pub-lishing group that acquired Californian reed maker Rico international in August, lifted interim profits, by

almost 21 per cent. The shares rose 30p to 792'4p yesterday as the group increased the dividend by 25 per cent and reported pre-tax profits of £2.05m

(\$3,2m) for the six months to tive about it. We have sud- Boosey into the plantation Mr Richard Holland, chief reeds," he said.

executive, said margins had improved, particularly in the instrument manufacturing side. However, he was most excited about the £17.6m purchase of Rico, which had taken the group into musical

making 26m reeds a year. accessories.

but the barriers to entry are
"It is a significant acquisihigh," said Mr Holland. The tion and we feel very posi- acquisition had also taken

June 30. Sales edged up from denly hacoma tha world business. He saw potential Boosay & Hawkes, the \$40.5m to \$42.2m. leader in the manufacture of synergies, mainly on the dissynergies, mainly on the distribution side.

Following August's US enhance earnings in the sec- court ruling in its favour over tha copyright on Stravinsky's Rite of Spring, used half of the world market. In Disney's video of Fantasia, the group is pursuing "It is a simple business, claims against Disney in the rest of the world. It would not quantify the amount it

Imps rises strongly on first day

By Ross Tiernan

Shares in Imperial Tobacco Group performed better

cigars and tobacco company demerged from the Hanson changed hands as fund man marks a sea-change in strat no-win, no-fee basis.

mglomerate is capitalised at £2.046bn (\$3.18bn).

Mr Gareth Davis, chief executive, was delighted. "I than expected on their first think the road-shows have day of trading yesterday, got the message across that closing up 18%p at 393%p. _ it is a very strong company At the closing price, some and really we couldn't have 100 ahead of brokers estimates, the UK cigarettes, than this," he said.

Some 14m Imperial shares

pany's strong cash flow, ings. Demand for the company was reinforced because hostile takeovers. it bae replaced Sonthern The strong st index, making it an essen-

seek to track the index.

decades it hecame a consought to build their hold- glomerate with annual sales of £11bn through a string of

The strong start came Riectric in the FTSE 100 despite the announcement on Friday that lawyers have tial holding for funds that agreed to represent UK can-The demerger of Imperial claims against Imperial on a

A new start for Millennium

UK investors may sell their holdings, writes Ross Tieman

trading is expected to start today when Millennium Chemicals is listed on the New York Stock Exchange. Shares in the former Han-

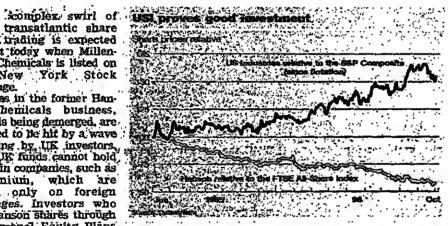
son chemicals business. which is being demerged, are expected to be hit by a wave : of selling by UK investors, Many UK funds cannot hold Millennium, which are quoted only on foreign exchanges. Investors who hold Hanson shares through UK Personal Equity Plans will also be obliged to sell the shares they receive to stay within UK tax rules.

"I think the British are going to be rushing for the door to sell Millennium," said an analyst, voicing the consensus. "The UK fund manager does not want to know about Millennium

behaviour of Millennium's UK shareholders, who will hold 70 per cent of the equity at the outset, is so great that the company has been endowed with 'poison pill" defences to deter would-be

bidders. Predictions are largely

When that happened, 76



the

Friendly Society, said: "The

easy thing to do is just to

sell, but that is not necessar-

ily the best strategy.
"With US Industries we

did not sell out immediately.

We kept our shares, and sold part of the holding later, as

they rose towards \$23. I wish

some of our other invest-

stantial rise in the propor-

tion of Hanson shares held

hy US investors, from

around 23 per cent when

more than 30 per cent. Many UK institutions, disen-

chanted by the performance

of Hanson shares, have

already cut holdings.

ments had done as well". The pace of the sell-off may also be slowed by a sub-

per cent of USI's 53.7m iels, investment director at shares were held by UK investors. Within six weeks, 40.5m shares had been traded and, by November, just 12 per cent of USI shares were left in UK hands.

The sell-off, which may have been exacerbated by concern about USI's heavy debt burden, depressed the share price. Having opened just over \$14, the shares reached a low of \$12% within

few weeks. But many funds which sold early did their investors a disservice. Owing partly to the speedy implementation of a disposal programme that reduced borrowings, shares in USI have since performed well, touching a high

of \$27% last month. The performance of USI may influence the way funds restructure their holdings in Millennium, Mr Steven Dan-

tricity distributor Eastern and US coalminer Peabody. That will leave Hanson as a much-shrunken building products company.

Despite the decline in Han-

son's share price, many investors have stuck with it the hope that the demerged groups, in which they will automatically get We do believe that the

gers with that of The Energy

Group, embracing UK elec-

group has been at a significant discount and upon break-up It will have s higher value," said one fund manager. Directors of the successor

companies - which Lord Hanson, the Hanson chairman, is apt to call his "grandchildren" - are happy to see a consolidation of their shareholder basa through sales by small inves-

Hanson made strenuous efforts to encourage individual investors, and has an estimated 600,000 shareholders, many of whom hold shares through UK Peps. However, one director estimated the cost of servicing these investors at £7 a head, or more than £4m a year.

plans for the demergers were announced in January, to Consolidation of the shareholdings will ease that man agerial headache. Bnt executives will face a much bigger one if the shares wind up in the hands of predators, Mil-Hanson will follow up the lennium's poison pill not-withstanding. Imps and Millennium demer-

Rothschild By John Gapper, chairman of NM Rothschild. Banking Editor

Reshuffle at

The Rothschild merchant banking group is trying to co-ordinate corporate finance activities around the world in a reshuffle that emphasises the growing role of Baron David de Rothschild within the family-controlled group.

Baron David is to become chairman of a new company, called NM Rothschild Corporate Finance, which will comprise London corporate finance activities. He will also chair a com-

mittee co-ordinating global corporate finance operations. Baron David, who chairs the French bank Rothschild et Cie, Banque and is also the deputy chairman of NM Rothschild & Co in London, is regarded as the most

Baron David. 53, re-built the French arm of the Rothschild empire after the original hank was nationalised. Unlike NM Rothschild, the French operation is not owned by Rothschild Continuation Holdings, a Swiss holding company.

The investment banking committee marks an attempt to co-ordinate more closely the efforts of Rothschild to win international business.

The move is one of several aimed at combining the disparate Rothschild operations more effectively. In Msy, the French and British hanks announced an alliance with ABN Amro, the Dutch bank, to distribute international share issues.

In addition to these moves. there will also be a reshuffle of senior management in the likely successor to Sir London corporate finance Evelyn de Rothschild as operations

Investors move into Limelight

By Christopher Price

game reserve in the Kalahari and Manchester City Football Club could be among the diverse beneficiaries of the float, announced vesterday, of the Limelight furniture group, whose former chairman will see his stake valued at about £85m (\$133m).

director, owns 49 per cent of tha company he founded in the early 1980s, as well as his game park and stake in the football club.

Limelight, which includes Moben fitted kitchens, is

hoping for a total valuation of more than £170m. Mr Boler is likely to reduce his stake to about 25 per cent. taking some £40m in cash from the issue to invest in his outside interests.

More than 50 per cent of the sbares are being floated. although no new money ts being raised.

Shareholders include Mr Mr Stephen Boler, who Michael Asbcroft's ADT lira, which affected profits of its 16 per cent stake. Schroders Investments, which bought its 27 per cent stake in a deal valuing the company at £130m two years ago, will sell an undetermined amount of shares.

LEX COMMENT

Labour party

For investors, arguably the most significant fact UK 5-year bonds about Mr Tony Blair is his Yield spread over Germany (%) age. He is 43. He is also ambitious. So if he gets into government, Mr Blair surely hopes to survive to handle the consequences of his own spending and monetary policy decisions. To this extent, he would he under tougher disci- 1.4 plines than currently apply to Mr John Major, 1 whose apparently low chance of re-election gives him a strong incentive to gamble - just as be did before the last election

when spending was let rip. Everything Mr Blair is saying supports this view. This is not just a matter of waffle sbout macroeconomic stability: Mr Blair's refusal to allow spokesmen anything but the most tightly defined spend ing commitments deserves credibility.

And yet - for all yesterday's high-flown pledges, i remains deeply unclear bow Mr Blair would set about delivering a fairer brave new world. He has been so busy ruling things out that, on the big issues, he is still left with little other than good intentions.

The danger is obvious: that Mr Blair, not least thanks to the fiscal and potentially monetary mess left behind by the present government, would fail to deliver anything like the expectations a new Labour government would excite. After, say, a year this would leave that government dangerously prey either to the failed remedies of the past or to novel but expensive gimmicks. This, not Mr Blair's true intentions, should be investors' real worry.

WBB slips | Possible as weather | merger takes toll

By John Hamilton

Watts Blake Bearne, the ter for a fall in profits.

Analysts said other pressures on profits were a highly competitive US market, the strengthing of the the shrinking of the UK mar-

Profits from WBB's nascent greenfield businesses in the Ukraine and Indonesia are expected to start in the second half.

world's largest supplier of ball clay, has joined the list of companies blaming bad weather in Europe last win-Mr Graham Lawson, chief

executive, said the group's first balf pre-tax outcome fell to £5.5m (\$8.6m), against £6.1m, because of the lack of activity in the German construction industry and destocking by German and Italian customers.

for GWR

Great Western Resources. the US-based oil and gas company with a UK listing, is in discussions that could lead to a merger with another US energy group.

By Patrick Harverson

The company explained yesterday that it had recently received a "tentative" takeover proposal from an uncamed sultor. but bad rejected the approach as not in the best interests of sharebolders.

However, GWR sald it was now reviewing "strategic available to enhance sbarebolder value." A merger is top of the list and the group a company it already knows well in the industry.

GWR's main asset is a joint venture exploration programme in Peru with Enterprise Olf. the UK

All of these securities having been sold, this announcement appears as a matter of evend only:

New Issue/September 18, 1996

\$500,000,000

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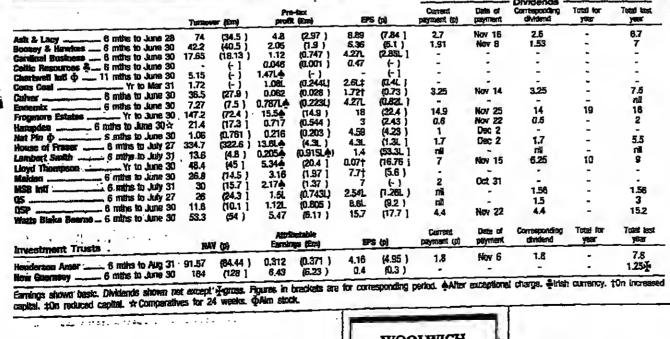
7% Notes due September 15, 2006

J.P. Morgan & Co.

Citicorp Securities, Inc.

CS First Boston

Deutsche Morgan Grenfell Coldman, Sachs & Co. Merrill Lynch & Co. **UBS** Securities





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WOOLWICH Building Society \$175,000,000

Floating rate notes due 1997 Notice is hereby given that the notes will bear interest at 6.14063% per annum from 30 September 1996 to 31 December 1996. Interest payable on 31 December 1996 will amount to \$154.35

JPMorgan

For the period from and including September 30, 1996 to and excluding April 1, 1997 the Rate of Interest is 6.57813%, the Interest Amount (per U.S. \$1,000) is \$33.44 and the Interest Payment Date is April 1, 1997. CITBANK N.A. = Agent Bank

Dated as of February 4, 1990

mandate for

Rally in US Treasuries lifts Europe GOVERNMENT BONDS in New York and Samer iskandar in London

Most European bond markets closed higher yesterday, helped by a rallying US Treasury market. France and Germany, however, showed the weakest performances while yields in the peripheral markets continued to converge towards

those of bunds. Although 10-year bunds closed about 0.35 higher. traders said the risa was capped by the release of strongar than expected industrial production data for August, showing a 1.7 per cent rise on the July

■ US Treasury prices gained ground after a national report on manufacturing activity showed that wholesale prices were not rising as quickly as some investors had feared.

Bonds had slipped on Monday after a report from the Chicago Association of Purchasing Management showed a jump in the prices naid component for September. That report is generally taken as an indicator of the national report, but yesterday's report from the National Association of Purchasing Management did not show nearly as large a

jump in the prices index. it was not as strong as the a decline in this series in to take its cue from rising 1994.

59.3 figure reported by the Chicago association.

Signs that manufacturing activity may be slowing gave additional support to tha market. The NAPM's overall index of manufacturing activity slipped from 52.6 in August to 51.7 in September.

By midday, the benchmark 30-year Treasury had gained in to 98in, yielding 6.888 per cent, while the two-year note added to 99%, yialding 6.050 per cent. The December 30-year bond future rose by

Ms Marilyn Schaja, of Donaldson, Lufkin & Jenrette, said that although the ump in the prices index. increase in the price index. The prices paid index of was disturbing, "based on tha NAPM report moved to recent commodity price 51.2 from 47.4 in August, but behaviour, we would expect

upcoming months and the US Treasuries and a slightly index rose because fewer stronger lira against the manufacturers cited lower D-Mark. prices, not because more

INTERNATIONAL CAPITAL MARKETS

higher prices". ■ Italian bonds recovered from early losses to close higher, their 10-year yiald spread over bunds 4 basis points tighter at 247 points.

Liffe's December BTP future rose 0.46 to settle at 121.95, then rose further in after-hours trading. Traders ignored the squab-

bling between Italian and verge even more rapidly," French politicians over said Mr Dan McLaughlin, at the likelihood that Italy would be a founding member lin. He predicts a narrowing of European monetary to around 50 basis points union.

The market chose instead

(a)R Oct 2006 0.875R 99.925R Oct 1999 0.1875R 99.837R Oct 2001 0.275R 99.83R Oct 2006 0.50R

102.50 Dec 2002 1,875

Final terms, non-calable unless stated. Yield apread (over relevant government bond) at launch supplied by lead manager. \$Convertible, \$ Floeting-rate note. \$Semi-annual coupon, R: fixed re-offer price; fees shown at re-offer level, a) Priced today 445-450bp over Treasuries, b) 3-mit Libor +30bp, c) Amortises in six equal annual instalments from 7/4/00, d) Purgible with F 500m. Plus 253 days accrued, e) Catisble on 30/10/06 and every 10 yrs at per, if not called coupon is reset at 250bp over the then 10-yr 05L, f) Redemption proceeds inked to index of 4 shares. VNU, Wolters kiluwer, PolyGram and Elsevier, g) 4% to 8/12/08, then 5% to 8/12/00 and 8% thereafter, i) Over interpolated yield, s) Short 1st coupon.

manufacturers reported WK and Irish gilts showed healthy progress. With rises of between 1/2 and 1/6, their yield spreads over bunds continued to tighten. Liffe's December long gilt future closed at 109%, up %.

The Irish 10-year spread over bunds stood at 85 basis points, down from 125 points a month ago and around 160 points last spring.

"Irish gilts could now con-Riada Stockbrokers in Dubover the next few months, a level not seen since early

Goldman/Salomon Bros CS First Boston

One-month NatWest wins euromark contract from DTB

By Samer Iskandar

The Deutsche Terminborse, the Frankfurt-based derivatives exchange, yesterday announced the launch of a new short-term money market futures contract, signalling an intensification of competition between Europaan futures exchanges ahead of monetary union.

The DTB will start trading a one-month euromark contract on November 12, just days before the launch of a similar product announced last month by the London International Financial Futures and Optiona

The German exchange also said it would scrap its existing three-month Fibor future and replace it with a new three-month euromark contract Liffe currently dominates trading in D-Mark denominated interest rate contracts, with daily volume in its three-month euromark contract averag-

ing 130,000 lots. Most of the cash market is based on the Libor as a reference and not on the Fibor", the DTB said. It concedes that it will be difficult to draw business away from London in this sector of the futures market, but said that "a market share in double digits would be sufficient to make the [threemonth euromark) contract

liquid". The German exchange is also confident of its chances of winning a greater share of husiness in the new one-

month contract It argues that screenbased trading will prove an advantage, claiming that trading costs on Liffe's open outcry floor are "up to three to five times higher than on the DTB".

Humber Power have not yet been released. cing to be finer than on the Bank's plan, announced last original facility, whose tranches were priced at mar-

By Conner Middelmann

National Wastminater week, to securitise \$5bn of corporate loans it currently has on its books looks as though it is already beginning to pay off. Surprising most market

observers, the UK bank managed to fight off tough competition from ABN Amro, CIBC, Deutsche Morgan Grenfell, HSBC and UBS to win a highly coveted mandate to arrange a £796m financing and refinancing facility for Humber Power.

The borrower had contacted each of the above banks and asked them to bid for half the loan with a view to a joint mandate, but Nat-West bid for the entire transaction and was awarded the sole mandate.

"There is a growing feeling that after the securitisation, NatWest will be able to bid for larger slices of deals." one banker said.

Under the securitisation set to be one of the largest such offerings in the international capital markets - Nat-West plans to sell off about 300 relatively low-margin corporate loans, freeing up lending capacity and credit lines and using its balance sheet more efficiently.

The Humber Power transaction is intended to refinance a £520m multi-trancha project-financing facility which was set up in December 1994 and arranged by NatWest and UBS.

The original facility was used to build a 750MW power station, and the £276m of extra cash provided by the new loan will be used to increase capacity to L.200MW.

Terms of the new facility

but observers expect the prigins ranging between 62.5 basis points and 135 basis points over Libor. Elsewhere, general syndi-

cation of a \$200m syndicated

loan for Israel, which was due to take place this week. has been put on hold in light of the latest bout of political violence to hit the country. While the arrangers of the facility are continuing to assamble a group of coarrangers - four or five are thought to have been put in place so far - further syndication has been postponed

one of the arrangers, said. Meanwhile, other emerging market borrowers have continued to provide the market's main source of

until the political situation stabilises, NatWest Markets,

activity. A five-year governmentguaranteed \$100m facility for Transnet, the South African conglomerate, was launched into general syndication last Friday after a group of 14 arrangers was formed. Credit Suisse and Sumitomo are arranging the deal.

The loan is priced at an interest margin of 55 basis points over Libor, 5 basis points tighter than a recent transaction for South Africa's Telkom.

In central Europe, a \$50m facility for Hungary's Postbank and Savings Corporation, a first-time borrower, is seeing strong demand, according to arranger Sanwa Bank. The five-year facility pays 60 basis points over Libor, with a top participation fee of 35 basis points for lead managers providing \$5m.

WE CRESS TATES

COT AS YEARS NO.

Argentina taps 10-year dollar sector for \$750m

New international bond issues

2.5bn

■ BUND FUTURES OPTIONS (LIFFE) DM250,000 points of 100%

1.00

Jan 0.68 0.48

MOTIONAL ITALIAN GOVT, BOND (BTP) FUTURES

Sett price Change

(LIFFE)" Lira 200m 100ths of 100%

5.875 13.00

(0)

INTERNATIONAL BONDS By Conner Middelmann

The Rapublic of Argentina made its long-awaited foray into the 10-year dollar sector yesterday with the successful placement of \$750m of

global bonds. The offer saw extremely strong demand, especially from US investors, and was at least twice subscribed. said a syndicate official at Salomon Brothers, joint lead with Goldman Sachs.

About 70 per cent of the issue went to US mutual funds and insurance companies, he said, with the rest placed predominantly in

Europe. "All emerging markets have a very strong bid to them these days and there hasn't been much supply, especially in the 10-year sector," he said. "As a result, there's a lot of pent-up demand, especially from new, mainstream investors". who are increasingly buying emerging market paper,

WORLD BOND PRICES

BENCHMARK GOVERNMENT BONDS

Coupon

The bonds are to be priced today, probably at the lower end of the indicated range of 445 to 450 basis points over

Also in dollars, Smith-Kline Beecham Capital, a rare borrower, launched a \$200m five-year offering priced to yield 26.5 basis

points over Treasuries. While lead Citibank reported good demand from European institutional investors, dealers at other houses said the deal was too

aggressively priced. "At 30 over, you'd start to get people looking at it - the low 30s would have been a lot preferable than the mid-20s." said one trader. Indeed, the spread wid-

ened to 29 bid in the course of the session. A \$250m issue of threeyear paper for Asset Backed Capital, an offshore investment company, was more warmly received, its 16 basis point spread seen to represent good value for a triple-A-rated issuer. The deal was led by CS First Boston.

7.86 7.35 6.89 7.59 7.74 6.58 6.88 6.38

+0.390 +0.120 +5/32 +16/32 +14/32 +22/32 +16/32 +0.300

Price change

99.3200 +0.310 12/05 99/32/00 +0/3/10 7/09/ 03/06 107/4800 +0/32/0 8.89 10/01 101.5370 +0/22/0 6.09 10/06 103/02/00 +0/24/0 6.05 04/06 101/35/00 +0/24/0 6.95 08/06 107/69/00 +0/61/0 6.95

02/06 107.1300 +0.300 8.38† 08/01 120.9781 -0.010 1.77 08/05 101.2502 -0.070 2.83 06/06 118.3400 +0.280 5.94 02/06 110.6100 +0.400 7.85

91.7540 103-30 99-11 109-25 102-24 99-10 104.1900

11/06 92,9390 +0.400 05/06 101,0200 +0.370 05/06 105,6500 +0.330

US DOLLARS Republic of Argentina Asset Becked Capital Smithkline Beecham Cepital Sentandar Fin Issuancest D D-MARKS Deutsche Autgleichebank Argentine Inv/ment Bond(c,s)

> In the D-Mark sector, Deutsche Ansgleichsbank tor, the European Bank for sued DM300m of eight-year bands yielding 8 basis points over the Treuhand benching less than domestic structure. The redemption bonds, the issue saw little German demand, but lead

Cera Bank Luxembourg

Dresdner-KB reported good which is made up of shares interest from international in VNU, Wolters Kluwer,

0.27 0.46 0.76

High

0.53

1.21

Est. vol Open Int.

In the Dutch guilder sec- PolyGram and Elsevier. Reconstruction and Development issued FI 150m of seven-year equity-linked zeromark bond due 2004. Yield- coupon bonds in a novel with protection from downprice of the bonds is linked potential from the investto the performance of the Dutch Publishers' Index, mant," said Mr Bart le Blanc. vice-president,

(a)(7%-06) +16(6%-99)

"This innovative transaction, which responds to specific demand in the Dutch market, provides investors swings in the stock market together with an increased

finance, at the EBRD. **FTSE Actuaries Govt. Securities UK Indices** -- Low coupon yield -- - Medium coupon yield -- High coupon yield --Oct 1 Sep 30 Yr, ago Oct 1 Sep 30 Yr, ago Oct 1 Sep 30 Yr. ago Price Indices UK Göts Day's Mon change % Sep 30 7.06 8.75 7.95 8.71 8.07 - 8.67 8.09 8.72 8.82 8.84 8.84 7,89 5 yrs 7,82 15 yrs 9,83 20 yrs 6,83 lmed.† B.75 7.08 7.85 7.94 7.12 7.92 1 Up to 5 years (22) 121,55 121.48 0.07 5-15 years (19) Over 15 years (8) tradeemables (8) 0.36 0.85 0.88 0.32 Oct 1 Sep 30 Yr. ago Oct 1 Sep 30 Yr. ago

201.89 193.20 201.61 192.73

FT Fixed Interest Indices

Oct 1 Sep 30 Sep 27 Sep 26 Sep 25 Yr ago High" Low" Sep 50 Sep 27 Govt. Secs. (UK) 93.99 93.73 93.88 93.74 93.28 93.25 96.34 91.59 99.2 107.8 114.06 113.81 113.88 113.50 113.26 111.52 115.23 110.74

Latest		Treasury	Bills	and Bond Yields	
Prime rute Broker loan rate Fed.funds at inservention	67 57	One month Two month Street month One year	5.14 5.39 5.70	10-vear	-

BOND FUTURES AND OPTIONS

	Open	Sett price	Change	High	Low	Est. vol.	Open Int.
Dec	124.78	125.06	+0.26	125.10	124,74	102,777	205,912
Mar	124.62	124.92	+0.26	124.86	124.62	2,554	23,095
Jun	123.56	123.86	+0.26	123.66	123.56	2,511	1,237
E LON	G TERM FRE	NCH BON	D OPTIO	NS (MAT	F)		
Strike	-	CAL	LS			PUTS -	
Price	Nov	Dec	: N	lar	Nov	Dec	Mar
122	3.09	3.10	5		0.03	0.12	-
123		2.27	7		0.03	-	-
124	1.25	1.5	1	.87	0.21	0.46	-
126	0.57	0.8	3 1	41	0.52	0.84	1.51
126	0.20	0.44					

	Ореп	Sett price		High	Low		Open int.
	98.66	98.98	+0.32	99.07	98.58	185839	239212
Dec Mar	87.63	97.97	+0.32	97.90	97.63	2863	4167

1174	4041,80		UTURES OF				14479
Strike	_		uls				
rice		Dec	Mar		Dec		Mar
2150		.64	1.96		1,19		2.27
2200		.36	1.72		1.40		2.53
2250		.12	1,50 263. Previous		1.67		2.81
Spain NOTK	MAL SPA	NISH BOL	D FUTURE	ES (MEFF)			
	-		Change	High	Low	Est. vol.	Open int.
	Ореп	Sett Disc		115.01			
Dec UK	106.10	108.24	+0.43	106.78	105.85	98,843	81,107
UK	106.10	106.24	+0.43 MES (LIFF)	106.76 E)- £50,000	105.95 32nds of	98,843	81,107
UK NOTIC	106.10 OHAL UK (106.24 Sett price	+0.43 MES (LIFF)	106.76 E)- 250,000 High	105.85 32nds of Low	96,843 100% Est. vol	81,107 Open Int.
UK NOTIC	106.10	106.24 Sett prior 109-04	+0.43 FRES (LIFF) Change +0-17	106.76 E)- £50,000	105.95 32nds of	96,843 100% Est. vol 83091	81,107 Open Int. 149587
UK NOTIC Dec Mar	106.10 OHAL UK (Open 108-18	106.24 Sett prior 109-04 108-06	+0.43 PRES (LIFF) Change +0-17 +0-17	106.76 E)* 250,000 High 108-07	105.85 32nds of Low 108-18	96,643 100% Est. vol 83091	81,107 Open Int.
UK NOTIC Dec Mar LONG	106.10 OHAL UK (Open 108-18	106.24 Sett price 109-04 108-08 URES OP	+0.43 PRES (LIFF) Change +0-17 +0-17 TIONS (LIF	106.76 E)* 250,000 High 108-07	105.85 32nds of Low 108-18 0 64ths of	98,843 7 100% Est. vol 83091 0 100%	81,107 Open Int. 149587
UK NOTIC Dec Mar I LONG	106.10 OHAL UK (Open 108-18	106.24 Sett price 109-04 108-08 URES OP	+0.43 PRIES (LIFF) Change +0-17 +0-17 TIONS (LIF	106.76 E)* 250,000 High 108-07	105.85 32nds of Low 108-18 0 64ths of	96,843 7 100% Est vol 83091 0 7 100%	81,107 Open Int. 149587
UK INOTIC Dec Vier LONG Strike	Open 108-18 GALT FUT	Sett prior 109-04 109-06 URES OP	+0.43 PRES (LIFF) Change +0-17 +0-17 TIONS (LIF) LLS	106.76 E)* 250.000 High 108-07 FE) 250,00	105.85 32nds of Low 108-18 0 64ths of	96,843 7 100% Est vol 83091 0 7 100% PUTS — Jan	81,107 Open Int. 149587
UK II NOTIC	106.10 Open 106-18 GR.T FUT Nov 0-49 0-21	106.24 Sett price 109-04 108-06 URIES OP Dec 1-07 0-42	+0.43 PRIES (LIFF) Change +0-17 +0-17 TIONS (LIF LLS Jan M 1-03 1-1	106.78 E)* £50,000 High 108-07 FE) £50,00 ter No 34 0-4*	105.85 32nds of Low 108-18 0 64ths of V Dec	96,843 100% Est. vol. 83091 0 100% PUTS — Jan. 1-51 2-28	81,107 Open int. 149587 4 Mar 2-18
UK II NOTIC	106.10 Open 106-18 GR.T FUT Nov 0-49	106.24 Sett price 109-04 108-06 URIES OP Dec 1-07 0-42	+0.43 PRES (LIFF) Change +0-17 +0-17 TIONS (LIF	106.78 E)* £50,000 High 108-07 FE) £50,00 ter No 34 0-4*	105.85 32nds of Low 108-18 0 64ths of V Dec	96,843 100% Est. vol. 83091 0 100% PUTS — Jan. 1-51 2-28	81,107 Open int. 149587 4 Mar 2-18
Dec Mar LONG Strike	106.10 Open 108-18 GRLT FUT Nov 0-49 0-21 0-08	706.24 Sett prior 109-04 108-06 URES OP Dec 1-07 0-42 0-22	+0.43 PRIES (LIFF) Change +0-17 +0-17 TIONS (LIF LLS Jan M 1-03 1-1	106.78 E)* 250,000 High 109-07 FE) 250,00 tar No 34 0-4* 08 1-13	105.85 32nds of Low 108-18 0 64ths of 0 -63 3 1-34 0 2-14	96,843 7 100.96 Est. vol. 83091 0 100% PUTS — Jan. 1-51 2-28 3-12	81,107 Open Int. 149587 4 Mar 2-18 2-56 3-38

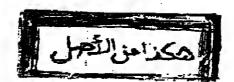
Strike		CA	us			PUTS -	
Price	Nov	Dec	Jan N	tar No	v Dec	Jan	Mer
100	Q-49	1-07 1	-03 1-	34 0-4	1 0-83	1-51	2-18
110	0-21	0-42 (1-44 1-	CB 1-1	3 1-34	2-28	2-56
111	0-08	0-22 ()-29 Q-	52 2-0	0 2-14	3-12	3-36
ist vol. 1	otal, Calls 41	05 Puts 260	Previous o	tey's open i	rt., Çeliş 2	2789 Puts 1	7500
-							
Ecu							
EÇU	BOND FUT	URES (MA	TIF) ECU1	000,000			
	Ореп	Sett price	Change	Hìgh	Low	Est. vol.	Open int.
Dec	93.26	93.58	+0.24	93.60	95.25	1,412	7,515
us							
	REASURY E	SONO FUT	URES (CE	\$100,00	00 32nds o	of 100%	
	Opera	Lebest	Change	High	Low	Est. vol.	Open int.
Dec	109-06	109-19	+0-13	109-22	109-03	230,905	376.002
Var	108-24	109-06	+0-14	109-06	108-24	2.377	20,160
lun	-	108-09		-	-	615	5,342
Japan							
	ONAL LON	G TERM J	APANESE	GOVT. E	OND FUT	TURES	
	Y100m 1						
	Ореп	Close	Change	High	Low	Fat. vol	Open Int.

r	87.63	97.5	96 97	+0.32		99.07 97.90		.58 165839 1.63 2863	2392 416		Ma	r	12	2.17 1.25		122.20 122.10 1109 na 121.27 121.25 358 na APT. All Open Interest, figs. are for previous day.
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	es to Fire Y	****					_	Trains 71200 2006##			7.99	98%	+4	18133	94器	Index-Linkes (b)
	: 1996	9.96	5.78	100,7		10334	100,7	Trees 73up; 200811		7.68	7.62	100%	+4	1034	96.7	45-pc 9811(135.6) 0.37 2.10 1144 +4 1144 1212 1212 1212 1213 1214 +4 1234 1234
	997#	12.94	5.77	10243	_	106,5	10012	Trees &pc 2002-011 -	_	7.84	7.53	102.LM	414	10413	97%	
10 ¹ 200 19		10.32	5.72	101芸	_	107.1	1014	Trees 114 pc 2003-7.		9.66	7.37	12171	+3	1252	11833	21200 00
CIW / DC 1 B-LDC 191	997##	8.83 8.54	5.87 5.93	100H 102H	=	1073	1022	Trees 812 pt. 2007 ##-		8.02	7.67	106			1813	200 06
очирс гул Брс 1997		13.74	5.96	109	-3		10233	Trees 90c 2008 \$\$		£.19	7,71	10912	-	11212	105	2 ¹ -pr (0)
Lpc 199		9.33	6.10	1041	_	106%	1042		_	7.87	7.78	1015		10412	961	21gpc 11
74pc 198		7,15	6.20	101년		102,	3053	Treas apc 2009	_	7.37	7.87	8433	_	86.2	811	2 ¹ 200 13(80.2) 3.86 3.55 1445 +1 1445 1 2 ¹ 200 15(81.6) 3.41 3.59 1531 +1 1531 1
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10 ² 200, 19		9.67	6.57	108.4	+4		10883									indexing \$6 8 monities pilor to leave) and have been adjusts reflect rebasing of RPI to 100 in February 1987. Conver-
pc 1999		6.09	6.56	9835	+3	9833 11243	94张	Over Fiftness Years		8.19	7.50	10033	-5-	1134	104	factor 3.945, RPI for January 1998: 180.2 and for August 1:
1900 194 pe 2000:	pc 1999_	9.35	6.71 6.77	108/2 108/2	+2,		10465	Trees 9pc 2012## —	_	-	7.67	7923	+12	824	75%	153.1.
3pc 200		10.83	6.88	120	+12	12413	1194	Trees 612pc 2008-12‡	Ŧ	6.86						
40c 199		12.52	6.27	11173	- 0	1170	111%	Treas 8pt 2013##		7.95	7.93	100%		10312	9,3	
toc 2000		7.70	6.89	103%	+14	1053	1013		‡	7.91	7.94	964			43]3	Other Fixed Interest
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1 8pc 200	1	9.00	6.99	111 ² a	+-	114	1094	Trees 85,pc 2017##-	_	1.12	7.98	10733		1115	16212	_ Yeld 52 wa
								Buch 12pc 2013-17_	_	8.74	7.97	1372	+33	141以	130社	Notes in Red Price £ + cr - High
								Trans Spc 2021##	_	7.95	7.93	100]]	+2	100%	85 <u>45</u>	Adlen Der 101-pc 2009 8.78 8.70 117.3 120 1
- Filtres	v															Brham 11 ¹ 290; 2012 9.31 8.90 123 ¹ 2 128 1 Ireland Cas 8-sec 10 8.04 - 1054 1054 1
PDG 2001		7.02	7.05	9014	+3	101&	951									9pc Cap 1996 8.65 - 104 1644
Jupe 201		8.72	7.23	1113	+2	1145	108%									13pc 97-2 11.72 - 11072 111 1
oc 2003		7.71	7.26	10312		105	2012	Hardeland								Hydro Quebec 15ec 2011. 9.54 6.82 15093 152.3 1
10pc 200		B.75	7.33	114.2	+3	1173	. 39	Consols 4cc	_	8,13	-	497	+10	50/2	4832	Leets 13 ¹ -poc 2006 10.18 - 137 ² -pd - 136 ¹ / ₂ Cherrood 3 ¹ -poc lettel 9.21 - 36ad 41
	001-4 1989-4	9.87 4.23	7.11 6.29	1161 ₂ 8235	+7,	127.7	1145	War Louis 31/20211		6.08	_	4313	44	452	41,2	Liverpool 31/2pc izzel
	nc 2004	847	7.47	1124	-14	1142	10732	Conv 31/200 '61 Aft.		5.77		80°-10	+3	621	58.1	Marchester 111-gc; 2007. 9.54 8.60 1200-pt
4DC 20	D444	7.05	7,44	9533	+4	984	901	Trace Size '98 Aft.	_	8.27		35-3×	+2	35.1	34.3	Mar. Wir. 3pc F 1.82 7.10 7812 7812
2 pc 20	05	6.45	7.52	1124	+4	114	108	Consols 21-00		7.57		31 (5 1)	+34	3233	205	Marce Angle 37670 2021 - 4.35 14014 14214
212pc 21	903-6	9,77	7,30	127	+2	1313	123(2	Consos 2/2ps	-	1.04		3133W 913wi		22.1		44pp 1 2024 4.46 135% - 145% 1

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FT/ISMA INTERNATIONAL BOND SERVICE Listed are the latest international bonds for which there is an adequate secondary market. Latest prices at 7:10 pm on October leased Eld Offer Chg Yield 2500 1047₂ 105 5500 104 1041₀ 1000 1055₁ 1055₁ 2000 327₂ 333₁ 3000 1011₂ 1015₁ - 1000 105 - 250 103¹2 - 1000 105¹4 - 1000 103¹4 - 300 112¹4 - 300 112¹6 - 100 105¹7 - 100 105¹7 - 100 105¹8 - 400 112¹2 - 100 105¹8 - 450 115¹8 - 450 115¹8 - 700 28¹8 - 600 115¹8 200 1004, 1074, 100 1004, 100 1134, 100 1134, 100 1134, 100 1134, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 100 1104, 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YOUTOBER 2 1996

CURRENCIES AND MONEY

Emu membership doubts fail to disturb lira

MARKETS REPORT Richard Adems

The Italian Bra continued to stay below the magic 11,000 level against the D Mark in foreign exchange trading resterday, despite doubts cast on Italy's early member-

ship of a single European The lira closed the day on the Lendon market at Legy 1 against the D-Mark a forther improvement from its previous level of L997.5.

The Italian bond and cur-rency markets showed little reaction to sceptical statements about Italian membership of a single currency by Mr Otmar Issing, the Bund-eshank's chief economist, and Mr Jacques Chirac, the French president. Mr Chirac warned that "it may take a little bit longer for those who are further behind, like Italy," to join the first round of European monetary

Mr Chirac's statement,

lira's value, which has risen sharply recently on hopes that Italy will qualify for Emu's first stage.

The D-Mark stayed flat against other European currencies, as most other European government bonds outperformed bunds. The D-Mark gained slightly against the French franc, to close at FFrs.387, up from

FFr3.383. A rise in US Treasury prices had little influence on the dollar, which was rangebound against the D-Mark and the pound: It fell over-night against the yen, after reports that the Japanese government favoured a strong dollar, but not a stronger dollar.

A spokesman later said

		·
# Pour	d to Moor Y	ork
Oct 1	Latest	Prev. close
£ coot	1.5645	1.5850
1 auth	1.5640	1.5844
. 3 mith	1.5635	1.5640
4	4 5545	4 5555

which was quickly retracted, the Japanese government threatened to undermine the did not regard a rise in the dollar as "undestrable".

UK government bonds enjoyed a half-point gain, but action in the bond market did not carry over into currency movements, as the pound rose slightly against the dollar and the D-Mark.

The lira's strength against the D-Mark may have more to it than simply optimism about the currency becoming a member of Emu.

Yesterday, both the president of France and the chief economist of the Bundes bank appeared to pour cold water on Italy's enthusiasm for joining Emu. But few in the markets

would have predicted that the comments would have such little impact on the lira's level. The lira did fall, but recovered strongly after Mr Romano Prodi, the country's

prime minister, called the

French ambassador to

explain the remarks. Reuters

join the euro. I ardently hope it will succeed." One Loodon dealer said: "This shows the Italians are

DOLLAR SPOT

reported that Mr Prodi

threatened to cancel his

scheduled meeting with Mr

believe the Italian govern-

ment is fully determined to

do everything, as it bas shown in its budget, to be in

the first wave of countries to

Mr Chirac later said: "I

Chirae oo Thursday.

very serious about joining corrected. [Exchange rates Emu, to the extent they are are oow more or less stable. willing to risk a slanging match with Chirac."

But analysis by Mr Avinash Persaud, a curreocy strategist at JP Morgan in Loodon, suggests that the market's current risk appetite for high-yielding currencies is buoyant. That appetite would have helped the lira shrug off concerns about membership of Emu.

■ Mr Issing said the D-Mark was now correctly valued against the dollar, after its sharp rise in 1995. "In the spring of last year there was a very sharp appreciation of the mark in a very short period," Mr Issing said.

"This has oow been mostly

Drech Re 42.3506 - 42.3192.27.0110 - 27.0410 Hungary 242:556 - 42:3192 27:0710 - 42:556 - 42:497 154:590 - 4895.00 - 4892.50 3000.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.00 - 4800.0 PLESTA 5415 00 57452 - 5.7484 3.6729 - 3.6731

In spring 1995, the D-Mar. hit an all-time high o DM1.3450 against the dollar MONEY RATES

Mr Nick Parsons, an ana lyst at Paribas Capital Mar kets in London, said th D-Mark's recent weaknes was driven by the strengt of the German bund marke "As long as long-term yield in Germany are falling, th Bundesbank is bappy to se

a weaker D-Mark," he said. "On aoy sign that Ger many's long yields are back ing up, we feel that that th Bundesbank will try to shor up the domestic market by talking tough on the Maai tricht criteria.

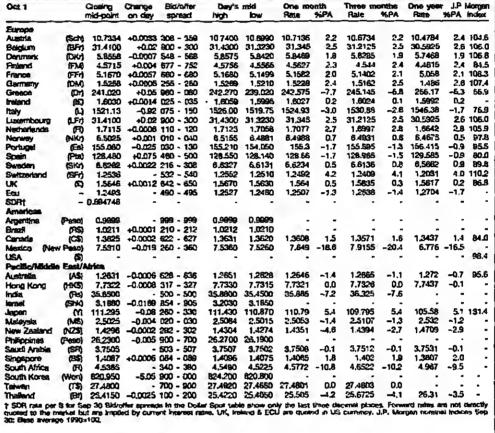
Meanwhile, Mr Johan Wilhelm Gaddum, the Bund esbank's deputy president said German interest rate were likely to remain unchanged.

 For the latest market update, ring FT Cityline on +44 990 209909

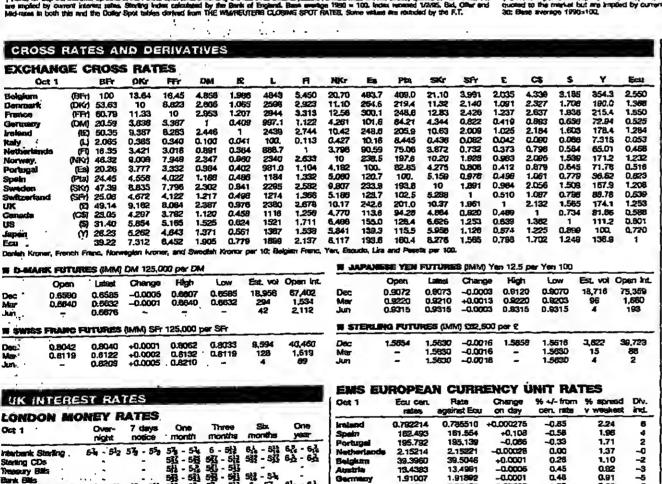
To subscribe, call +44 171 873 4378

		night	month	mthe	mths	year	inter.	rate	rate
٠, ا	Belgium	34	34	34	31/6	34	6.00	2.50	
s]	week ago	21	3,	31/4	35	3.	6.00	2.50	-
-	France	3,	34	3	31.	39	3.35	-	4.75
k	week ago	3.	32	3.	37	32	3.35		4,75
of	Germany	3 5	34	3 4	3,	32	4.50	2.50	3,00
r.	week ago	31	34	34	33	314	4.50	2.50	3.00 6.25
a.	Ireland	51/2	52	5*	5,,	52	-	-	6.25
r	week ago Italy	5 <u>4</u> 8 <u>2</u>	5.	5% 82	5% 7%	6 <u>1.</u> 71.	-	8.25	8.38
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e	Netherlands	21	22	2.	20	3.	_	3.00	3 30
S	week ago	22	22	2%	27	35	-	3.00	3.30
h	Switzerland	1	1%	114	1,5	178	-	1.00	-
t.	week ago	14	136	1隻	1%	15	-	1.50	-
s	US	5.	5%	517	57	54	-	5.00	-
ie l	week ago	576	5%	5.	5%	6%	-	5,00 0.50	-
e	Japan	4	₩.	2	ě	Į,	-	0.50	_
-	week ago		- *	!		<u>13</u>		0.50	
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K-	week адо	-	5≟	SÇ	52	84	-	-	-
ie	US Dollar CDs	-	5.15	5.22	5.35	5.62	-	_	-
e l	week ago	-	5.15	5.30	5.45	5.75	-	-	-
У	ECU Linked Ds week ago	-	4%	4V.	416	42	-	~	-
ğ.]	SDR Linked Do	-	32		44 34	33	Ξ	_	
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- 1	Danish Knone	312 - 314	913 - 3		312	313 - 35	376 -	311	4 - 352
٠ ١	D-Mark	318 - 218	3/2 - 3			35 - 2%	35.		يال - عال
, !	Dutch Guilder	24 24	27 2	?4 2 <u>]</u>]	- 24	2% - 233	27.	283 3	- 2
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4	Mar 96.			~	98.27	96.23		997	37,544
S (Jun 96,	14 96	16	~	96.16	96.14	5	51	25,229
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. !	Mar 92.1			0.04	92,82	92,66		68	31785
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اة	Sep 92.5			0.06	93.05	92.91		09	132B4
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up day See 7.09pc. Fe Finance H III THEE Dec Mar Jun Sep Dec Also trade	p 30, 1998. A distribute rate outs Batte Par SE MORTHN Open 94,02 93,85 93,59 93,59 93,02 d on APT. A	Sett price 94.02 93.67 93.83 93.25 93.09	g 31, 1986; Oct 1, 1986 G FYTUR Change +0.01 +0.04 +0.05 +0.07 set figs. are	ES (LIFFE High 94.03 93.88 93.64 93.36 93.11 for previous	998, Schem 9500,000 Low 94.00 93.83 93.57 93.29 93.01 stery.	points of Est. vol 13849 13111 11085 4790 3847	.849pc. 100% Open in: 117683 80240 77490 42784
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	BA	SE LENDING	RA	TES	_
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lank of Cyprus bank of Ireland lank of India	5.75 5.75 5.75	eGuinness Mahori Habib Bank AG Zurich eHambros Bank	5.75 5.75	United Bank of Kumait. Unity Trust Bank Pic	5.73 5.73 5.73
ank of Scotland arclays Bank	5.75 5.75	Hentable 6 Gen kny Bi graff Samuel	5.75 5.75 5.75	Milmedici Priem.	5.7: 5.7: 5.7:
nt Bix of Mid East Brown Shipley & Co Lt	5.75 5.75 5.75	C. Hoare & Co Honglong & Shareha Julian Hodge Bank	5.75 5.75	Members of London	
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Spein	162	493	161.55		+0.108	-0.58	1.90	
Portugal	195	.792	195,13	. 9	-0,066	-0.33	1,7	1 2
Netherland	2.15	5214	2.1522		.00028	0.00	1.37	
Selgkum		960	39.504		0.0001	0.28	1.10	
Atostria		1383	13,499		0.0005	0.45	0.82	
Зестиния		1007	1.9189		0.0001	0.48	0.9	
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NON ERM I	MEMBE	RS						
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cu central rate expension rate spanners, and the sentral rate. 17/9/90) Storte III PHILLADI								
strike			CALLS .				PUTS -	
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		ъ.	7.5					
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.570 590	0.2	9	0.83	1.1	6	0.77 1.52	1.35	1.71 2.32
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.570 .580 http://doi.org/s i Thitrible i lock har un i US TREA	0.2 0.0 vol., Cal worth Open 94.21 94.06 93.89 94.77 94.61	944 E 3,578 EURO EURO 94.2 94.1 93.9 94.7 94.4	0.83 0.48 Put 4.52 Pot 4.52 Pot 4.52 11 +0 13 +0 14 +0 15 +0 16 -0	1.11 0.8 5. Prev. R (IMM) ange 0.02 1.04 3.03 5 (IMM)	51mp 94.24 93.84 51mp 94.78 94.78	0.77 1.52 ion int., Calls cints of 100 Low 94.20 94.05 93.88 er 100% 94.77 94.61 94.48	1.35 1.99 142,031 Pu 0% Est. voi 67.274 70,877 35,418	7.71 2.32 ts 116,346 Open int. 461,351 350,459 257,868
1 Theres I	0.2 0.0 vol., Cal worth Open 94.21 94.06 93.89 94.77 94.61	94.4 1 EURO 1 EURO 94.2 94.1 93.9 94.7 94.6 94.4	0.83 0.48 Put 4.52 Pot 4.52 Pot 4.52 11 +0 13 +0 14 +0 15 +0 16 -0	1.11 0.8 5. Prev. R (IMM) ange 1.02 1.04 1.03 5. (IMM) 0.03 1.01 ey DM1m	51mp 94.24 93.84 51mp 94.78 94.78	0.77 1.52 en int., Calls oints of 100 94.20 94.05 93.88 er 100% 94.77 94.81 94.46	1.35 1.99 142,031 Pu 0% Est. voi 67.274 70,877 35,418	1.71 2.32 a 116,340 Open int. 461,351 350,459 257,958 3,765 1,520 75
1 THREE I	0.2 0.0 vol., Cal worth Open 94.21 94.06 93.89 94.77 94.61	94.4 EURO LESS 94.2 94.7 94.6 94.7 94.6 Nov	O.83 O.48 O.48 DOLLAN DOLLAN S OUTURE S OUTURE S OUTURE CALLS CALLS CALLS CALLS	1.11 0.8 5. Prev. R (IMM) ange 0.02 1.04 1.03 1.03 1.03 1.03 1.01 er DM1m	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.77 1.52 en int., Cate oints of 100 94.20 94.05 93.88 er 100% 94.77 94.61 94.48 of 100%	1.35 1.99 1.42,031 PJ 0% Est. voi 67,274 70,877 38,418 172 15 10	1.71 2.32 a 116,340 Open int. 461,351 350,459 257,858 1,520 75
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Iran urges early return | Gold miners prepare for output boom to market for Iraqi oil

By Robert Corzine

Iraqi oil exports should resume as soon as possible if tbey were not to disrupt world markets, according to Mr Gholamreza Aghazadeh. Iran's oil minister.

He said in London yesterday it would be in the best interests of the Organisation of Petroleum Exporting Countries for the resumption of Iraqi exports to coincide with the present period of high worldwide demand. Oil prices could be under pressure next year, he warned. His comments coincided

with increasing activity by United Nations officials to resurrect the UN oil-for-food plan that was suspended last month after President Saddam Hussein sent troops into Kurdish northern Iraq.

Commenting on the uncer-tain outlook for oil prices, Mr Aghazadeh said he did not see much scope for an increase in the production ceiling when Opec met in Vienna in late November.

But he confirmed that Iran had benefitted substantially from the recent oil price rise. So far this year It had achieved an average price of about \$18 a barrel, well above the \$15.50 budget estimate. That should add \$2bn to the \$16bn in annual oil

revanues envisaged, he said. The minister was upbeat about the prospects of Iran attracting more foreign investment into its oil and gas sector. But he said it would reject foreign investment proposals containing conditions designed to avoid unilateral US sanctions on the Iranian

oil and gas industry. He expected such deals to be above hoard. They should not includa any special conditions, "If [foreign] companies decide to work with us that means they have solved their problems on the out-

New US legislation seeks to limit foreign oil compa- they added.

in Iran and Libya, two states Washington has accused of

engaging in state terrorism. The move prompted speculation that some companies keen to invest in Iran might try to do so through a series of subsidiaries or subterfuges to conceal the source of such funds.

Mr Aghazadeh, who in recent days has met executives from a number of international oil companies in Vienna, Paris and London, said many were prepared to "ignore" Washington's unilateral attempts to restrict Iran's vital oil industry.

He would not name individual companies, but he said the industry response had been "satisfactory", with

nies from investing more one of the offshore developthan \$40m in energy projects ment projects attracting 12 separate proposals from foreign companies.

> Only Total of France in partnership with Petronas of Malaysia is currently investing in Iran's offshore sector, the one segment of its oil and gas industry open to direct foreign participation. But Mr Agazadeh predicted that additional deals would be announced "in the near future."

Meanwhile, in Luxembourg European Union forelen ministers yesterday decided to widen the scope of EU retaliatory measures planned to counter the effects of the unilateral US legislation aimed at the Libya and Iranian oil sec-

companies to a size large 150,000. Resolute Samantha, By Kenneth Gooding.

COMMODITIES AND AGRICULTURE

Mining Correspondent, in Denver

Any doubt that an unprecedented gold production boom is on the way is being dispelled at the Denver Gold Group's annual Mining Industry Forum, where many of the world's big gold companies and some of the go-ahead explomaking presentations this

The procession of companies promising to double reserves and output within a few years is causing some analysts and producers concern about the impact on the gold price as supply threatens to catch up with demand.

The increase in gold outout will be accompanied by a wave of mergers as managements attempt to build their year it produced under

enough to attract institu- which also did not exist five tional investors, who prefer years ago but already is big companies with lots of tradeable shares.

This became clear on the first day of the forum, a day devoted mainly to smaller companies. Examples of the expected

rapid growth presented to the 350 delegates here came from soma companies that ration organisations are did not sven exist six years

Among these was Royal Oak, the Canadian company, which produced 371,000 troy ounces of gold last year and confidently said here it would be a 1m ounces-a-year producer hy 2000. Viceroy Resources, which in the spring acquired two other companies, Loki Gold and Baja Gold, has set itself an annual production target of 500,000 ounces by 2000. Last

producing 250,000 ounces a year, expects this to rise to between 400,000 and 500,000 in two years time.

Granges is another company that faces dramatic change via acquisition. It is in the process of merging with De Capo Resources to form Vista Gold and expects to triple production to 300,000 ownces by 2000.

Later this week hig companies such as Barrick Gold. already the largest producer outside South Africa, will tell delegates that it is sure of doubling annual output in the next ten years to more than 6m ounces while Placer Dome, another Canadian group, will explain how it intends to lift annual production from 2m to about 3m

ounces by 2000.

doubling production in the next few years. No wonder the gold price gets weaker place," said Mr Nick Hatch, analyst at Flemings Global Mining Group.

Ms Amy Gassman, analyst at Goldman Sachs, pointed out that not all the new production would come into the market at once and some of it would not come to market at all because it would not be able to find the necessary finance. Nevertheless, it did seem the industry was approaching another production hoom and this would have an impact on market sentiment.

Mr Dennis Wheeler, chairman of Coeur d'Alene Mines, suggested that the coming jump in gold production during the next five years made the work of the World Gold "Every company is talking Council, the promotional

some producers, even more important. "Wa about doubling reserves and organisation financed by make sure that the demand when these avents take is there to absorb the extra gold." The council's budget : for this year was a healthy US\$66m but it had set itself a future target of \$75m, said Mr Wheeler.

This will not be easy to achieve. Gencor's gold division recently gave notice cil, taking with it more than \$2.5m of revenue. Mr Tom Dale, managing director of Gengold, said his company could not afford the contribution asked for by the council - \$2.50 for every ounce produced. Other executives at this forum also said that, while they approved of most of the council's efforts on the industry's behalf. they could not justify or afford payment of this mem-

Copper prices slide further on LME

MARKETS REPORT

COPPER prices fell sharply on the London Metal Exchange yesterday after news of a hefty drop in exchange warehouse stocks failed to underpin the market. "Even with a solid fall in copper stocks prices fell," said an analyst. "It wasn't just copper but across the

hoard. The three months delivery position finished after hours "kerb" trading at the day's low of \$1,890 a tonne, down \$38 from Monday's close. The price had peaked at

\$1990 late last week. Traders said price moves were again exaggerated by thin conditions overall.

Copper stocks were down another 7,825 tonnes on Tnesday, with traders attributing recent falls to arbltrage deals against Shanghai and Comex copper markets. Tight supplies of scrap and Russian copper in Europa also contributed,

The bearish mood in copper soon spread to other markets, where investment funds and speculators liquidated long positions and

adopted fresh short ones, traders said. The three months

ME	WAREHOUSE	STOCK
	Thursday's old	

Aluminium	-960	10961,725
Atuminium alloy	-560	to 82,820
Copper	-7,825	19 239,500
Lead	-1,050	to 117,975
Nickel	+192	10,40,590
Zinc	+1600	10 546,850
Tin	+20	to 10,285

ALUMINIUM price fell \$10 to \$1,367.50 a tonne, having hit a fresh 24-year low of \$1,357 earlier in the day.

TIN followed the trend, with the three months position sinking to a 16-month low of \$5,900 a tonne before bouncing to \$5,975 by the close, still \$45 down on bal-

At the London Bullion Market the GOLD price hit at an 18-month low in jittery trading before bouncing to

finish little changed.

Robusta COFFEE futures values at the London International Financial Futures Exchange rebounded in the afternoon on firmer New York values but finished off their peaks on producer selling, traders said.

The spot November position's premium to second-position January widened on keen huying amid concerns over near-term supplies.

Traders said the late rebound after sleepy morning trading was also seen as a technical correction following Monday's sell-off. New York arabica prices were moderately firmer but just shy of key resistance toward midday. The market had opened higher, huoyed hy an unexpectedly sharp drawdown from US certified

Figures released after the New York market closed on Monday showed a fall of 10.433 bags (60kg each) on the week to 31,669 bags - the lowest level in at least ten Compiled from Reuters

years, analysts said. By the London closa November robustas stood \$15 higher at \$1,503 a tonne, after first breaching immediate support at \$1,488, then reversing and hreaking above resistance at \$1.500.

The next key hurdle is seen st \$1,520 a tonne, while underlying support is identified at \$1,471.

The Novamher-January premium widened to touch a high of \$62 before closing at \$58 a tonne, up from Monday's finish of \$49. The remaining months were \$9 to \$12 firmer. Traders said origin selling

was keeping a lid on the upside in London. On tha downside, keen roaster interest was seen at the lows. They said the US stock data, coming at the start of the 1996-97 South American harvest, could underpin

prices and hoost the New

York December position's

premium to the distant

months.

Egypt expects cotton crop boost

By Sean Evers in Cairo

Egyptian cotton exporters have entered tha international market for the 1996-97 season with an optimistic bounca, as farmers have begun to pick what is expected to be a humper harvest and the government has

relaxed state controls. Mr Saeed Haggag, chairman of the Alexandria Cotton Exporters Association (Alcotexa) said last week

The [export] amount this year is tremendous". All varieties of Egypt's extra long staple and long staple are on offer to the world market this season, in contrast to last year, when only a small amount of ELS

and no LS fibre was avail-

able for export. The 1996-97 cotton harvest is estimated at 350,000 tonnes compared with 260,000 in 1995-96. Also available is 40,000 tonnes left over from last season. This should increase exports from 19,000 tonnes last year to at least 150,000 tonnes this season, as the domestic market crop opening prices, except will only absorb about 50 per cent of the total.

Alcotexa is hoping that this year's crop and recent reform's in the government's trade policy will win back international buyers.

After more than three decades of strict state controls, the Egyptian government liberalised lts export restrictions in February. It will no longer divert the valuable long-staple varieties for use in the domestic textiles industry. Cotton exporters are now allowed to export all types of cotton, and spinning companies are permitted to import cheaper varieties of cotton from any-

where in the world. Alexandria's revived Mina al-Basal cotton exchange last week registered its first trades since 1961.

Alcotexa, which groups 18 cotton exporters, set the season's opening export prices for nine varieties between 224 and 100 US cents a pound. ELS varieties are 46

for Giza 45, which has declined by only 13 cents. LS varieties are returning to the world market st between 135 and 100 cents a pound.

According to the Liverpool based Cotton Outlook magazine. Egypt's decline in asking prices for the ELS varieties has been more pronounced than that of upland values since the 1995-96 season opening prices were announced in February.

Egypt can expect increased competition from US traders, who have responded to its opening offers by offering the comparable American Pima varieties at up to 7 cents less than Egypt's.

Mr Ahmed el- Guweli, Egypt's Minister of Trade and Supplies said E£400m (\$120m) had been set aside for cotton subsidies. The government set a minimum price of E2500 for 50kg. equivalent to 133 US cents a pound, to encourage farmers to grow cotton after last to 48 cents below the 1995-96 year's disappointing season.

SURFER COME

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COMMODITIES PRICES

BASE METALS

LONDON METAL EXCHANGE ALUMINIUM, 98.7 PURITY (5 per tonne Open int. Total daily tumover 219,150

M ALUMINIUM ALLOY (S per I 1190-200 1230-35 High/low AM Official 1190-92 Kerb close Open int. Total daily turnover ■ LEAD (\$ per tonne) 754.5-55.0

High/low AM Official Kerb close Open Int. Total daily tumover NICKEL (\$ per tonne) 7030-35 High/low AM Official Kerb close

Open Int. 7otal daily turnover TIN (\$ per tonne) Karb close

ZINC, special high grade (\$ per tonne) 994-95 992.5-3.5 1016-16 AM Official Kerb close 991-92 19.587 COPPER, grade A (\$ per lonne)

1901.5-03.5 1907-08 1943-44 1933/1890 1910-12

■ LME AM Official 5/5 rate: 1.5684

68.75 -2.30 90.10 88.60 416 88.20 -2.15 88.20 88.20 65

PRECIOUS METALS I LONDON BULLION MARKET (Prices supplied by N M Rothschild) 377.70-378.10 377.05 240.803 472.255 378.85 242.212 474.827 378.90-378.50 240.803 472.255

Loco Ldn Mean Gold Lending Rates (Vs US\$) 1 month 3.44 5 months 3.30 2 months 3.39 12 months 3.50

484.75 490.80 496.75 e equiv. 247-249

Precious Metals continued GOLD COMEX (100 Troy oz.; \$/troy oz.)

	Sett	Day's				Open
	price	change	High	lun	Wol	bet
Oct .	378.1	+0.4	378.5	377.Q	647	735
Dec	381.0	+0.5	381.5	379.0	23,183	111
Feb	383.1	+0.6	383.4	381.9	1,282	14,148
Apr	385.2	+0.0	385.4	363.8	66	11,104
Jose	387.6	+0.6	387.4	367.1	40	11,534
Aug	390.0	+0.6	-	~	325	4,222
Total					25,840	195,465
= PL	ATINUM	NYME	X [50]	Troy or	L; SAT	y oz.
Oct	384.5	-0.1	386.0	354.0	2,679	1,661
Jan	387.3	+0.7	385.9	386.2	3,370	18,675
Apr	390.1	+0.6	391.5	390.0	410	7,260
Jul	393.1	+0.6	394.0	393.5	62	582
Oct	396.0	+0.6	399.0	397.Q	25	37
Total					6,541	25,335
■ PA	LLADIU	M NYM	EX (100	Troy o	Z; \$/0	oy oz.)
Dec	120.50	+0.75	120.80	119.35	303	7,603
Mag	121.50	+0.85	121.25	121.15	25	193
Jup	122.55	+0.85	_	•	5	115
Total					208	7,911
■ \$16	VER CO	MEX (5,0	100 Tro	y oz: C	ents/tro	y 02.)
Oct	486.2	+3.3	483.0	480.0	28	15
Dec	491.0	+3.3	495.5	485.Q	5,519	68,845
Jen	493.5	+3.2	-	-	2	26
Mer	498.4	+3.2		496.0	208	11,275
May	503.2	+3.1		503.0		6,405
Jul Total	508.1	+3.0	505.5	505.5	16 8.063	4,911
					_,,,,,,	

ENERGY CRUDE OIL NYMEX (1,000 barrets. \$/berrel) 24 36 _0.02 24 45 23 83 27 733 84 447

22.03 -0.07 22.10 21.85 2.392 17.874 CRUDE OIL IPE (\$/berrel)

GAS OIL PE (\$/tonne) 236.25 +3.75 236.25 228.50 6,774 21.859 218.75 +1.25 217.50 212.50 2,205 18,142 210.25 +2.00 210.25 205.50 1,643 13,157 201.00 +1.00 201.00 197.75 430 3,244 182.50 +1.50 193.00 189.50 458 5,761 17,859 88,726

2.200 -0.014 2.260 2.170 13.476 28.610 2.325 -0.001 2.355 2.320 1.007 9.940 2.220 +0.003 2.250 2.220 588 7.429 2.082 - 2.090 2.080 220 5,168 UNLEADED GASOLINE NYMEX (42,000 US galle,; c/US galle.)

GRAINS AND OIL SEEDS ■ WHEAT LIFFE (€ per tonne)

381.00 -1.00 388.00 387.00 386.00 -2.00 390.00 381.00 MAIZE CBT (5,000 bu min; cents/56to bushel) ■ BARLEY (UFFE (£ per tonne)

Oct Dec Jan Mar May Jel Total

23.21 - 23.25 22.67 20,588 50,869 22.75 +0.05 22.79 22.26 6,977 47,476 22.22 +0.12 22.22 21.76 2,854 24,446 21.59 +0.05 21.61 21.25 850 14,250 21.00 +0.13 21.00 20,67 2,097 14,342 20.25 -0.08 20.25 20.25 1,040 5,394 28,806 172,233 71.20 +0.45 70.45 68.90 82.95 82.702 68.60 +0.45 68.90 67.50 3.134 22.722 68.30 +0.40 66.40 65.60 1.396 12.008 63.25 +0.55 63.25 62.00 605 0.416 57,861 144,124

MATURAL GAS MYMEX (10,000 min8ful; \$/mm8tu.) All lutures data supplied by CMS.

62.50 - 64.70 62.20 14,719 7,698 63.00 +0.74 63.10 61.30 14,055 24,327 62.55 +0.47 62.70 61.20 3.553 11,168 62.10 +0.42 62.20 61.15 1,031 6.260 62.00 +0.62 62.00 51.00 166 2,401 62.00 - 62.00 62.00 53 1,261

433.75 -2.25 438.00 432.00 15,322 48,448 418.75 -3.75 425.50 418.50 3,536 14,441 398.25 -3.25 402.50 397.50 398 1,348 377.50 -1.25 380.00 377.00 617 6.086 296.00 -0.75 299.25 292.50 60,634179.551 303.00 -1.00 306.75 300.25 15.940 67.524 297.00 -1.00 300.00 298.00 435 2.847 92,988 319,265

100.80 -0.20 100.75 100.25 109 952 101.80 -0.20 102.00 101.50 36 718 103.30 -0.20 104.25 104.25 - 161 104.80 -0.20 104.50 104.50 10 80 145 1,829 SOYABEANS CST (5,000bu min; conta/50b bushe) 749.25 -8.75 756.00 744.00 65.913108.847 797.25 -9.75 764.50 753.00 11,164 31,836 765.50 -8.25 772.00 780.00 4,349 18,824 766.75 -10.50 773.00 781.50 2,221 15,031 769.25 -9.25 774.00 764.00 2.790 12-350 761.50 -10.00 761.00 760.00 38 262 Total 86,180 190.816 COFFEE (CO) (US cents/pound) SOYABEAN OIL CBT (50,000/bs: cants/fb) 23.95 +0.09 24.04 23.53 4,896 3.997 24.27 +0.08 24.45 23.85 24.750 51.761 24.57 +0.10 24.71 24.16 4.204 11,817 24.92 +0.05 25.09 24.55 3,055 12,828 25.24 -0.03 25.35 24.85 1,554 7,672 25.50 -0.10 25.70 25.25 535 1,719 39,301 91,521 SOYABEAN MEAL CET (100 tons; \$/ton)

248.9 -5.6 254.5 248.7 12,311 13,961 245.8 -3.9 249.0 245.5 29,394 43,765 245.2 -3.0 248.0 244.8 3,113 9,724 243.5 -2.3 248.0 244.8 3,113 9,724 243.5 -2.2 243.0 243.1 3,516 1,765 240.8 -2.2 243.0 243.5 1,766 7,967 240.8 -1.9 242.0 239.0 256 3,211 POTATOES LIFFE (E/torina) -2.5 35.0 35.0 -2.5 - -+1.3 73.5 72.0 +1.3 - -+1.3 - -FREIGHT (BIFFEX) LIFFE (\$10/index point) 996 +1 995 995 1 773 1115 -10 1125 1111 242 1,680 1185 -5 1195 1180 70 509 1215 - 1225 1210 207 1,269 1231 - - 497 - 497 25 87 572 4123

Nilnor Metals
European free merket, from Metal Bulletin,
\$ per lib in warehouse, unless otherwise
stated (last week's in brackets, where
changed). Antimony: 99.6%, \$ per tonne,
2,350-2,450 (2,425-2,525). Bismuth: min.
on poss. traine lots 3,30-3,70. Cadmium:

22.50-23.00 (23.00-23.80); 89.3%, 21.50-21.90 (22.10-22.70). Mercury: min. 99.99%, \$ per 78 ib flesk, 162-172. Molybdenum: drummed molybolic oxide, 4.15-4.65 (4.00-4.40). Selenium: min 99.5%, 3.00-4.20. Tungstan ores standard min 65%, \$ per tonne unit (10kg) WO, cit, 45-55, Vanadume min. 98%, cit, 3.08-3.20

COCOA LUFFE (Extense)

986 +18 976 958 127 131 973 -13 982 970 1,571 32,904 986 -13 1006 998 1,753 38,840 1013 -8 1021 1012 445 20,781 1027 -9 1035 1027 93 11,287 996 1013 1027 1041 93 11,287 49 3,785 COCOA CSCE (10 tormes; \$/tonnes) 1360 -17 1371 1358 3,830 30,586 1390 -15 1401 1388 1,627 17,696 1410 -13 1416 1410 51 8,132 1426 -14 1428 1425 39 5,122 Many Jed Sep Dec Total 5,706 77,360

COCOA (ICCO) (SDR'a/torine) COFFEE LIFFE (S/torne) 1488 -67 1555 1521 113 262 1503 +15 1506 1486 1,571 14.607 1444 +11 1448 1430 1,308 7,361 Jan Mar Mey Jef Total 1407 +9 1414 1380 577 4,058 1380 +10 1385 1380 243 1,567 1385 +10 1388 1388 5 232 3,819 27,856 COFFEE 'C' CSCE (37,500lbs; cents/lbs)

104.75 +1.80 105.60 103.50 8,072 14,050 104.75 +1.80 105.90 103.90 8,072 19,464 100.50 +1.18 101.50 99.90 1,407 5,254 100.70 +1.35 107.30 99.90 134 2,09 100.25 +0.30 100.50 100.25 10 769 100.95 +1.30 100.95 100.95 1 230 101.00 +1.00 101.50 101.00 2 298 10 769 1 230 2 296 7,829 22,889 Sep 30 Comp. daily

WHITE SUGAR LIFFE (\$/tonne) 322.5 -2.0 325.6 321.5 1,085 11,287 318.1 -2.7 322.5 318.3 638 9,883 318.7 -3.4 322.0 319.0 395 4,120 320.5 -4.5 324.6 320.0 467 1,287 314.3 -4.4 318.0 315.0 12 658 318.5 -4.7 321.0 319.0 9 268 2,874 27,879 2,574 27,579 SUGAR '11' CSCE (112,000lbs; cents/lbs)

Desc Mar May Aug Oct Desc 7stal

Oct May Jel Oct Mor Total

May Jul Oct 7otal

65 1,309 - 17 67 1,226

11.47 +0.43 11.55 11.12 5.220 6.379 10.73 -0.11 10.93 10.7516.231 85.507 10.73 -0.09 10.84 10.72 3.385 23.840 10.50 -0.06 10.63 10.63 25.34 16.590 10.52 -0.08 10.77 10.57 1,855 10,069 10.52 -0.04 10.50 10.56 468 2,730 20,421 143,069 COTTON NYCE (50,000fbs; cents/lbs) 75.20 +0.42 75.15 74.80 124 753
76.15 +0.48 76.19 75.40 7.378 30.108
77.35 +0.45 77.40 78.55 692 10.048
78.00 +0.45 78.00 77.50 395 6.699
78.50 +0.45 78.00 77.50 134 4.841
78.40 +0.20 76.40 77.90 22 1,000 8,862 57,458 ■ ORANGE JURCE NYCE (15,000lbs; parts/lbs)

110.05 -5.10 115.25 110.00 1,570 7,040 106.50 -2.00 105.00 106.20 310 5.020 105.50 -2.40 110.25 108.25 79 2.813 111.00 -1.30 111.00 110.00 29 570 112.25 -2.05 114.70 114.10 79 324

YOUME WATA
Open Interest and Volume data shown for contracts traded on COMEX, NYMEX, CST, NYCE, CME, CSCE and IPE Crude Oil are one day in arrears. Volume & Open Interest totals are for all traded months. INDICES ■ REUTERS (Base: 18/9/31=100)

VOLUME DATA

Oct 1 Sep 30 month age year age 1882.7 1892.5 1962.0 2088.4 ■ CRS Futures (Base: 1967=100) Sep 30 Sep 27 month ago year ago 245.63 248.64 ≡ GSCI Spot (Base: 1970=100) MEAT AND LIVESTOCK ■ LIVE CATTLE CME (40,0000bs; cents/lbs)

Sett Day's Open. Price change High Low Yel Ant 73.825 +0.300 73.850 73.550 5,817 29,630 68,075 -0.075 68,475 68,000 7,543 36,749 65,100 +0.200 85,300 64,950 1,940 18,894 68.575 ±0.150 68.700 66.425 522 8,209 64.125 ±0.050 64.350 64.100 269 3,618 64.025 ±0.025 64.225 64.025 186 4,212 Oct 57.825 +0.100 58.000 57.450 2,983 8,108 Dec 57.275 -0.025 57.750 57.100 5,073 16,993 Feb 77.550 +0.025 77.255 77.250 1,524 5,535 72.925 -0.425 73.475 72.750 519 2.315 77.300 -0.350 77.600 76.850 220 2.586 74.100 -0.550 74.500 73.950 151 562

PORK BELLIES CME (40,000lbs; cents/lbs) 78.375 +0.250 78.950 76.750 1,726 4,764 78.400 4.300 78.900 76.850 158 905 70.750 +0.200 79.900 78.000 55 315 79.700 +0.100 78.750 78.700 11 132 78.750 +0.200 79.900 78.000 78.700 +0.100 78.750 78.700 78.350 +0.350 78.000 78.980

LONDON TRADED OPTIONS Strike price \$ torme - Calis - - Puts -E ALUMINIUM

61 105 COPPER (Grade A) LME 123 158 28 64 107 69 29 69 133 Prov. day COFFEE LIFFE Nov Jan COCOA LIFFE Dec Mar 2250 . 2300 . LONDON SPOT MARKETS

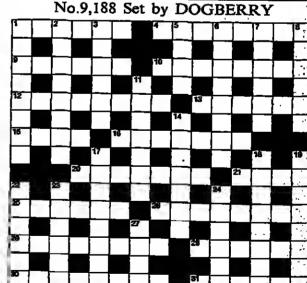
> \$21.06-1.08 +0.080 Dutosi OR PRODUCTS INVEprompt delivery CIF floor \$214-216 Premium Gasoline Heavy Fuel Oil
> Nephtha
> Jet fuel \$112-114 \$219-221 MATURAL GAS (Percertherm) 13,80-4.10

Petrolsum Argus, Tel. London (0171) 359 8792 Gold (per troy oz) \$
Silver (per troy oz) \$
Platinum (per troy oz.) \$118.75 Lead (US prod.) 45.00c 14,88r 276.50 Tin (New York) 94.74p 114.78p Cattle (live weight) Sheep (live weight) Pigs (live weight) -0.63* 108.530 Lon. day sugar (raw) Lon. day sugar (wte)

Wheat (US Dark North) Rubber (KL RSS No1) 314.0v Coconut Oil (Philis Palm Oil (Maley.)\$ ٠7.5 Copra (Philis Sovabeana (US) tope (64s Super)

JOTTER PAD

CROSSWORD



Dogsbody at the beginning of Dickens' Barnaby (6)
 Soft stretcher is hot and

9 Seat that's divine in auction (6) 10 Sparkling compiler's captivated by poet (8)
12 Plant making birds sound like cats, almost (8) 13 Returning s manuscript – a record of vital find (6)
15 One to turn king into oper-

atic prince (4)

16 Churchman before and 22 Taking no money for part 20 Furny place to find weasel
(7)
21 Sport on river (4)
23 Adequate number asking.
"Whither Classical spirit?"

confused (6)

26 Stack playwright in car
27 Only fish (4) riage (8) 28 Geographer making cart more unstable (8) 29 Struggled to get right into tha cooker (6)
30 Edward bolds pigment to be finite (8)

31 Officer entering craft gets silver (6) 1 Record many intend to deny (8) 2 Ona's at a disadvantage when poorly grounded (8) 3 Look into wound and see a

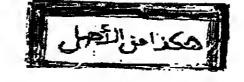
5 Line story-teller upheld (4) 6 Vie to introduce beginner at finish (8) 7 One is one without charge

a woman! (6) 11 Fourth to show mercy (7) 14 Able to jump in where entertainment's cheap (4-8) 17 Wet way to upbraid (8) 18 Usurp non worker accept. hing the alternative (8) 19 Cow on top of bass line's

25 Sexiess retinue gutted and 24 One on ice in card game confused (6) takes queen (6)

Solution 9,187





MY OCTA				
OCTOBER 2 19%	FEVANCIAL TIMES	WEDNESDAY OCTOB	ER 2 1996 ★	
Mon				MANAGED F
Joon		lable over the telephone. Call the FT Cityl All But Males Right or Tall Copy Man Mars - Tall Copy Man Mars	ine Help Desk on (+44 171) 873 4378 for	More details. at the Soling Roles Yald Gran Place - 57
to From the party of the party	AND OVERSEAS	W S G (Guerraev) Ltd Westweis, The Compt, S. Peter Part Great 752655 hand Glood Fd	Sandi kdematiene (Guerrsey) Ltd Felon Hys Boune S111.42 112.49 Schröder Innestrant Hagani (Guerrsey) Ltd	LST Ascet Management [16 - Contd. 67 June 075 Sector A. \$1929 10.85 -0.09 0.00 67 June 075 Sector A. \$6.59 6.52 -0.05 0.00 67 June 075 Sector A. \$5.50 0.02 -0.05 0.00 67 June 075 Sector B. \$10.44 -0.07 0.00 67 June 075 Sector B. \$10.44 -0.00 0.00 67 June 075 Sector B. \$10.47 13.00 -0.00 0.00 67 June 50 A. \$257 13.00 -0.00 0.00
100	BERNOUDA	Pactices (1984) 0 8578 80827 4837 4837 4848 4868 4878 4878 48825 100325 437 3.44 (Accord United — 0 2574.1 5564.8 143.7 3.44 Prundhaffial Fund Maraganes (Emerysay) Ltd. Po Ber 51, 51 Pater Fort Guarrany 01491 707000	Section Integration Section Se	61 Japan Sm Cos 9 \$13.480.04 0.00
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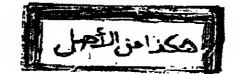
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scient Selection Federic SEAPI Berns Bong Norm	\$9.081 \$7.756 \$43.178 \$12.587 \$7.596 \$2.583 \$2.903 \$31.257 \$21.919 \$32.690 \$35.913 \$8.655 \$9.421 \$4.655 \$6.41 \$4.655 \$6.41 \$4.655 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6.41 \$6	9.536 4 0.154 4 45.129 4 13.221 4 9.014 3 32.620 2 23.010 3 34.334 3 37.710 4 9.950 3 4.943 4 4.943 4 4.944 4	0.074 0.081 0.486 0.182 0.202 0.500 0.500 0.500 0.500 0.002 0.500 0.003 0.003 0.003 0.003 0.003 0.003 0.003	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0
scient Selection Federic	\$9.081 \$7.765 \$43.175 \$7.595 \$43.597 \$7.595 \$28.594 \$29.021 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$21.257 \$2	9.536 4 0.154 4 45.129 4 13.221 4 9.014 3 32.620 2 23.010 3 34.334 3 37.710 4 9.950 3 4.943 4 4.943 4 4.944 4	0.074 0.081 0.486 0.182 0.202 0.500 0.500 0.500 0.500 0.002 0.500 0.003 0.003 0.003 0.003 0.003 0.003 0.003	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0
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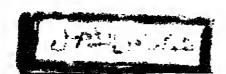


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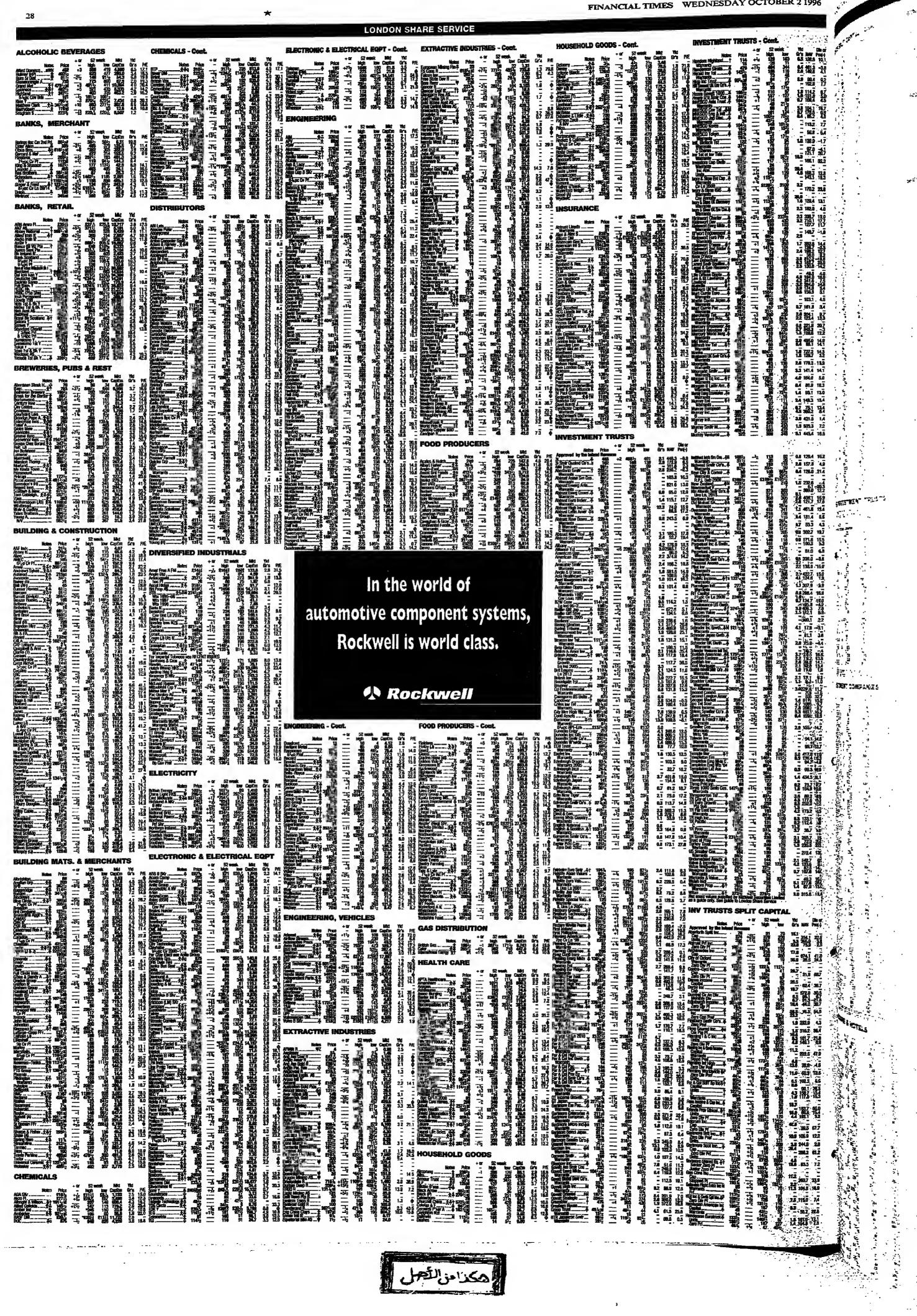
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| ELECTRISATION | 101 | 102 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 |

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FTSE 100 poised to drive through 4,000 level

By Steve Thompson,

The upside momentum behind London stocks built up strongly during the last hour of trading yesterday with the FTSE 100 index accelerating at such a pace as to look like threatening the 4,000 level at one point.

Although failing by less than eight points to run through 4,000, the FTSE 100 still managed to reach a new peak of 3,992.2, up 38.5, as the first trading session of the fourth quarter saw the big domestic and overseas institu-

Second-line stocks were some- FTSE future which was always in numerous other leading issues. what overshadowed by the leaders, but managed to record good gains across the board, lifting the FTSE 250 index 18.7 to 4,409.8. The FTSE SmallCap underperformed, however, ending the session only 4.2 ahead at 2,71.3.

Senior marketmakers insisted, however, that the FTSE 100 was poised to cruise through the 4,00 barrier at the outset this morning, "given a reasonable showing by the Dow and US Treasury bond market". After hours trading in the FTSE future indicated an opening level of almost exactly 4,000.

The influx of new money into tions pour cash into the market. the market was first felt in the

strong demand and traded at a big premium to the underlying cash market throughout the ses-

Although always well supported during the early part of the day, the stock market staged a determined dash just before the close with dealers reporting evidence of a substantial trading programme, heavily weighted on the buy side.

The programme was said to have involved the purchases of large lines of stock in Legal & General, Barclays Bank, RTZ, Lloyds TSB, SmithKline Bee-

£550m. It lowered the follow-

ing year's estimate by £200m

to £700m. Mr David Bevan at

the securities house blamed.

the "poor pricing environ-

ment in the second quarter

However, he expects

improvements in the second

J D Wetherspoon soared 59

to 1109p on the back of a

"buy" note from Kleinwort

Benson. This said that a

number of operators, includ-

ing J D Wetherspoon and

Regent Inns, were cheap rel-

ative to the arithmetic aver-

age of a selected sample, on

the basis of the value of the

company relative to operat-

The broker said that Weth-

half of the current year and

which has just ended".

further progress in 1998

UBS, the Swiss-owned securities house, was aggressively bidding for most of the leading

LONDON STOCK EXCHANGE

stocks just before the close. Early strength in share prices stemmed from a sparkling return to the market for Imperial Tobacco, newly-demerged from the Hanson group and whose shares eclipsed even the most optimistic expectations, closing at the top of the FTSE 100 perfor-

mance table. And the return of the everpresent bid stories circulating in the markat over recent weeks produced some outstanding gains cham, Tesco, BSkyB, BP, Blue among the banks and insurances, Circle, Shell and P&O, as well as a sprinkling of stocks among the banks and insurances,

been bolstered recently by

acquisitions including Peli-

Cobleigh, by the Rank

Organisation. Analysts

suggested, however, that any

bid for Wetherspoon would

have to be agreed because of

a substantial shareholding

by the management and

that this was unlikely given

the company'a current

Cobham takes off

Aerospace group .Cohham

moved strongly ahead early

in the day. It was not until

late in the session that there

was an announcement from

the company saving the Min-

istry of Defence had selected

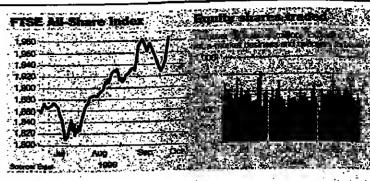
15-year programme to pro-

News of a stronger than expected UK National Association of Purchasing Managers index for September caused some momentary jitters in the gilts market, where initial gains of between eight to 10 ticks were shaved, before that market regained its

Wall Street, in the wake of a weaker than expected US

momentum later in the day. A relatively stable opening by

National Association of Purchasing Managers index, did little to choke off demand for UK shares. Turnover at 6pm came out at 709.6m shares, while Monday's retail trade was valued at



The second secon

100	3992.2	+38.5	FT 30	2861.7	+26.
250	4409.9	+18.7	FTSE Non-Fins p/e	18.26	18.1
350	1986.6	+16.8	FTSE 100 Fut Dec	4028.0	+41.
All-Share	1960.67	+15.67	10 yr Gilt yleid	7.63	7.6
All-Share yield	3.75	3.78	Long gilt/equity yld n	atio 2.10	2.1
			Manual mindamida		

-02

+0.1

370 300

Distributors

IN FIRE 100 ENDEX FUTURES (LIFTE) 225 per full index point

Open Sett price Change High

M FTSE 250 INDEX FUTURES (LIFFE) \$10 per full index point

+41.0 +41.0

E FTSE 100 INDEX OPTION (LIFFE) (3987) £10 per full index point

4028.0

4438.0

Law

4037.0 3989.0

FUTURES AND OPTIONS

Buoyant return for Imps

The market spotlight was firmly fixed on Imperial Tobacco, one of two companies demerged from Hanson, which made an impressive return to the stock market yesterday.

Dealing in the new independent group, which was installed in the FTSE 100 index, started at 375p, some

5p below the expected level. The lower-than-anticipated start did little to check the market's appetite for the stock with the ahares moving strongly ahead to touch a high of 395p, before closing

at 3934p. Imperial Tobacco not only took pole position in the Footsie, but was also the most beavily dealt stock

with closing volume of 14m. The stock should be heavily traded today with broker's change of recom-US buyers expected to sbow a keen interest in the shares though one UK broker said as the session drew to a close: "I am begining to feel the shares are starting to look expensive particularly

The positive sentiment in Imperial soon spread to BAT Industries which helped the shares put on 6 to 4311/2p in trade of 7.4m. Shares in Han-shares a "hold". son closed % lower at 94%p. having traded 5.5m by the its profits estimate for Brit. Oct 1 Data based on Equity shares listed on the London Share Service.

close. Millsnnium Chemi- ish Steel cutting the current pub openings in the pipeline. cals, the other group year forecast by £150m to demerged from Hanson is being listed in New York where it starts trading

Rimours that Millennium & Copthorne Hotels is about to hit the acquisition trail left its shares trailing 2 to

The word in the market is that the group has cast its eye over the five Metropole conference hotels currently owned by Lonrho and is keen to buy them. However. market watchers suggested Millennium may need a rights isaue to fund the

acquisition. Stakis is said to have also considered putting in a bid for the same chain but later decided against the acquisition, Lonrho shares hardened a penny to 171%p in trade of 1.4m. Stakis was unchanged at 99p.

Steel active

British Steel won the dubious honour of being the worst performer among FTSE 100 index constituents as the shares reacted to a mendation and share profits downgrade.

The shares fell 3 to close at 195p with turnover reaching 13m, making it one of the most active stocks of the day. The turnover included a single block of 6m shares

Credit Lyonnals yesterday removed the stock from its "buy" list and now rates the The broker also reduced Same

traded at 194p.

growth was set to continue, preferred bidder for a £400m with two years worth of new Oct 1 Sep 30 Sep 27 Sep 26 Sep 25 Yr ago "High "Low 2861.7 2834.8 2822.4 2817.8 2616.8 2607.5 2865.2 2658.6 3.67 4.00 4.01 4.02 4.03 4.11 4.22 3.76

ing profits.

2893.2	2840.8	2848.6	2855.4	2652.6	2851,1	2851.7	2853.2	2856.8	2861.7	2833.2
FT 30 t Open	_	-		12.00	13.00	14.00	15.00	16.00	High	Low
FT 30 sin	ce compa	ation: hig	h 2885.2	19/04/96	(low 49.	A 26/06/4	D. Bane I	Dane: 1/7/	35.	
P/É raik		17.2							17.21	15.71
		17.3						15.69	17.37	15.80
P/E ratio										

erspoon's strong earnings its joint venture FBS as the

1392.8 32,091 480,4 Oct 1 Sep 30 Sep 27 Sep 26 Sep 25 Yr ago "High

•	O FTSE Internation		1030.10 1030.20 10 1998. All rights reser			0 965,70
7	M London	market c	ista			
5	Pilses and fell	6"	52 Week highs	and lows	LIFFE Equity opt	lons
•	Total Piees	671	Total Highs	146	Total contracts	46,982
	Total Falls	561	Total Lows	46	Calls	34,928
1	Same	1,403			Puts	12,054

vide aircraft and personnel for a new belicopter flying Market interest in pub and school restaurant operators has

The shares improved on earlier gains following the announcement and eventucan, by Whitbread, and Tom ally closed 37 ahead at 6691/2p, one of the best performers in the FTSE Mid 250

> The stores sector was slightly brighter with Kingfisher climbing 91/2 to 643p following a note from Morgan Stanley setting a target price for the stock of 773p in

the near future. Recently ABN-AMRO Hoare Govett gave Great Universal Stores a "sum of tbe parts valuation" of between 750p and 770p. One analyst quipped that there was a choice for about the same investment of buying GUS on break-up value or

Kingfisher on fundamentals. House of Fraser softened 41/2 to 158p following interim results which were worse than analysts had expected and higher than anticipated provisions to cover store closures and reorganisation.

Boosey & Hawkes, the musical instruments maker, climbed 30 to 7921/sp following sparkling interim results, which were in line with analysts forecasts.

Takeover speculation continued around HTV which added 2 to 3531/2p ahead of today's interim figures. United News & Media, which is believed to be interested in HTV, softened 51/4 to 6831/2p, partly because it is also understood to be a possible bidder for Blenheim, the exhibitions group. One analyst said there was concern that it might overstretch itself if it bid for both while if it bid for neither there were worries about its strategy. Blenheim, which reports interim figures today, fell 5 to 416p.

OI

try to extract an equity stake in the new Flextech BBC subscription channel in return for allowing the service to be broadcast through

its satellite network. Meetings with analysts before it goes into its closed season was said to be responsible for EMAP rising 19 to 767½p.

RMC Group, which is heavily dependant on the Germany construction cycle, added 191/2 to 1167p, with one analyst suggesting that this could be because of more favourable sentiment on German recovery.

A visit by institutional analysts to BPB's new factory in Germany was likely to be responsible for it rising 81/2 to 3821/20.

M EURO STYLE FTSE 100 INDEX OPTION (LIFFE) £10 per full index point

TRADING VOLUME

LON	DO	N Ri	ECE	NT I	SSUES: E	QUIT					
Issue	Arre	Mict.				Close					
price	paid	COLD	19	196		price		· Net	Div.	Grs-	P/E
Р	щ	(Em.)	High	Low	Stock :	P	#	div.	COV.	yld	net
- 6	F.P.	252.8	328l2	31412	AEA Technology	· 315	-3	17.5	33	. 3.0	12.8
§100	F.P.	-	100	95	Amer Opps Ln 03/			-	_	-	-
-	F.P.	121	68	623	Barbican Hahere	6242		-	-	-	_
§	F.P.	134.3	17912	1672	Brunner Mond	168		W8.45	2.0	6.3	9.9
-	F.P.	29.5	9012	B112	Cruden Bay	85	يا۔	-	-	-	-
-	F.P.	210.6	196	18212	Dairy Crest Grp	19012	+3	W9.1	2.7	6.0	7.9
150	F.P.	31.0	168 ¹ 2	1675	Deltron Bectm	168 ¹ 2	+1	W2.75	2.9	2.0	15.0
	F.P.	5.17	4		†Dentmaster	4		-			26.5
§146		43.5	246	148	TBec Retail Sys	2072	-7	-	_	_	-
5		2.39	53		Faynewood	45 ¹ 2mi	-	20.4	_	1.1	-
7	F.P.	206.0	5423	\$254	GT Chile Growth	25%			-		-
§12.5		1.83			†Grosvenor Land	15%		_	_	_	-
\$65		182	8812		Hambros Sm Asn			_	_	-	
- 6			127		Hartstone 8%	1212	-1	_	_	_	-
-	F.P.	2049			Imperial Tobacco	39312		W20.0	2.5	6.4	7.9
§12		0.60	15		fLite Numbers	12		*******			
6		0.15	, e		Life Numbers Wit			_	_	-	
	F.P.	1.194	21633		Milenium Chem	216,1		Q60c	_	2.4	_
	FP.	0.38	8		Pemberstone Wrts			4444			_
66		16.0	106		tPersonal No Co		42	_		_	
§65	FP.	12.1	7012		Polydoc	7012	72	_	_	_	_
§100		81.5	96		Schroder Em Chrs			_	_		
5100	FP	6.80	40		Schroder Em Was			-	_		_
9	F.P.	6.61	13712		Shalibane	13712		R4.0	21	3.6	11.3
5	F.P.	9.87	73		Theolog Covers	712		0.00	48	1.5	17.9

FT GOLD MINES INDEX

Gold Mines Index (30) 1851.84 -1.3 1877.12 1985.73 M. Recland believe

speculation that it will	When Index" is a trademark of The er of companies, Basis US Dollers, are unavailable for this edition.	
FTSE Actuaries Share	Indices he Faculty and Institute of Actuaries	The UK Series
Oc	Day's Year Div. t 1 chge% Sep 30 Sep 27 Sep 26 ago yield%	Net P/E Xd adj. Total cover ratio ytd Return

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risk without reducing rewards.

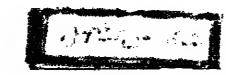


	Oct 1	Day's	Sep 30	Sep 27	Sep 26	Year ago	Div. yield%	Net	P/E ratio	Xd adj.	Return
FTSE 100	3992,2	+1.0	3953.7	3946.4	3933.2	3524.2	3.90	2.04	15.70	145.91	1658.5
FTSE 250	4409.6	+0.4	4391.1	4406.2	4404.6	3968.6	3.46	1.55		148.46	
FTSE 250 ex IT	4439.7	+0.4	4420.7	4437.8	4437.3	3994.3				167.13	
FTSE 360	1986.6	+0.8	1969.8	1968.4	1963.0			1.95		71.52	
FTSE 350 Higher Yield	1895.2	+0.7	1881.3	1883.8	1879.1	1745.3		1.83		92.48	
FTSE 350 Lower Yield	2085.2	+1.0	2065.4							51.10	
FTSE SmallCap	2171.27		2167.10					1.59		55.35	
FTSE SmallCap ex IT	2164.32		2159.82					1.68			
FTSE All-Share	1960.67	+0.6	1945.00	1943.93	1939.20	1741.28					
	1960.67	+0.6	1945.00					1.66 1.92		58.62 69.03	

		OR, Integrated(3)	3970.82	+1.3 3821.2	4 3900,83	5 3889.69	9 2921.48	a76	1.45	5 22 PG	133 40	3 177B.7
	16	Oil Exploration & Prod(15)	2868.74	+1.3 2831.7	1 2846.31	2796.85	5 1975.06	1.85				1738.00
	20	GEN INDUSTRIALS(276)	2110,84	+0.7 2096.3					_		_	
		Building & Construction(34)	1194.79	+0.1 1193.6	4 1100 4	1105.00	1993.28	4.04				1172.5
		Building Matts & Merchs(29)	1977.84	+0.6 1966.3	7 1061 5	1185.30	820.55	3.50				1011.20
		Chemicals(25)	2534.84	+0.6 2518.6	4 2500 00	1900.23	1/43.81	3.89				1012.9
		Diversified Industriale(19)	1579.05	+0.9 1565.2	2 4505.20	2497.94	2447.34	4.00				1221.48
	25	Bectronic & Elect Equip(37)	2405.77	+0.9 1000.2	2 2400 00	1001.90	1775.95	6.43				909.19
	26	Engineering(71)	2649.63	+0.3 2396,2 +0.8 2628.6	7 2406.26	2416.12	27/3.64	. 3.28				1266.90
	27	Engineering, Vehiclee(14)	3282.84	+0.0 2020.0	2014,81	2615.84	2215.76	3.07	2.45			1627.44
	28	Paper, Pokg & Printing(28)	2873.86	+1.7 3229.5 +0.5 2660.2	2 3151.00	3148.00	2670.06		1.71			1730.20
	20	Textiles & Apperei(19)							1.83			1191.83
			1184,71	+0.1 1183.7					1.16	17.52	50.38	738,22
] 30	CONSUMER GOODS(83)	3771.01	+0.6 3735.9	2 3731.56	3697.54	3398.23	. 3.71	1.94	17.40	123.46	1417.19
	32	Alcoholic Beverages(8)	2801,86	+0.8 2779.3	6 2773.32	2756.80	2976.30	4.54	1.83			1024.38
		Food Producers(25)	2594.98	+0.5 2582.3	8 2598.23	2602.05	2490.93	4.05	1.88			1189.35
	34	Household Goods(15)	2706.57	-0.5 2721.2	2 2716.18	2694.56	2545.24	3.76	2.26			1041.96
	36	Hesith Care(19)	2047.68	+0.6 2035.6	7 2043.21	2048.61	2001.58	2.90	1.97			1255.63
	37	Pharmaceuticals(14)	5864.15	+1.1 5800.5	4 5754.99	5646.G2	4479.68	2.87	2.06			2023.02
	38	Tobacco(2)	3671.58	+1.8 3604.3	6 3676.36	3714.48	4481.10	6.22	2.06			945.49
	40	SERVICES(256)	2581.23	+0.8 2561.9	R 2586 67	2504 04	0100 50	2.87				
	41	Distributors(30)	2826.49	-0.2 2832.0	0 2850 07	2859 22	2 103.56	2.89	1.97			1360.67
1	42	Lessure & Hotels(25)	3153.00	+0.4 3141.8	9 3134 54	3120 75	2496 11	2.76	2.00			1056,03
	43	Medla(45)	4397.27	+0.9 4360.2	9 4354 00	A749 70	2961 71	2.76	2.03			1714.08
		Retailers, Food(15)	1944.72	+0.8 1928.9	4 1934 70	1042 16	2114 61	4.03				1607.75
	45	Retailers, General(45)	2134.38	+0.9 2114.7	2 2126 51	2122.10	1000 00	3.01	2.37			1257.40
	47	Breweries, Pubs & Rest (22)	3115.01	+0.5 3096.0	E 5113 24	2417.40	1003,03	3.32	2.08			1235.79
	48	Support Services(50)	2561.41	+0.6 2547.3	1 2555 04	2557 10	1960 41	1.92	1.97		68.21	1510,42
	48	Transport(23)	2557.26	+1.0 2531.3	7 2524 53	2514.37	2227.22	a70				1841.49
		UTILITIES(32)							1.12		<u>81.63</u>	1086,30
1	82	Electricity(12)	2289,62	+0.6 2268.5	8 2288.64	2305.90	2571.65	5.52	1.80		158.45	1019,46
	84	Gas Distribution(2)	2361.06	+1.2 2334.1	3 2360.23	2366.80	2781.94	6.45	2.40		429.17	1278,50
		Telecommunications(8)	1335.47	-0.6 1342.9				8.97	0.63		66.67	700.48
	- 00	Water(11)	1945.32	+1.1 1924.7	B 1933.46	1959.23	2153.22	4.15	1.53	1870	50.32	903.56
	_		2181.93	+1.1 2158.3				6.30	2.31			1234.03
1	_69	NON-FINANCIALS(871)	2063.19	+0.6 2045.8	5 2046.53	2041,30	1863.73	3.74	1,83	19.26	72 40	1595.76
1	70	FINANCIALS(104)	3209.19	+0.7 3185.4				_				
ı		Banks, Retail®	4608.77	+1.0 4565.3	9 4540 57	3100.26	2618.46	4.13	2.38			1410.51
i		Banks, Merchant(6)	3696.04	+1.0 4000-3	4342.5/	4522,54	3591.00	3.93	271	11,74	174.00	1540.08
ı		insurance(21)	1491.45	+0.5 3678.6	3709.66	3/19,48	3632,82	2.82	2.85		91.01	1188.98
		Life Assurance(8)		+0.5 1484.3	9 1482,08	1484,84	1315,83	5.82	2.29	6.62	60.41	1140,29
	-	Other Financial(20)	3665.84	+0.6 3644.3	3619.53	3635.11	3041.89	4.23	1,94	15.24	151.01	1558.59
		Property(41)	2657.64	+0.1 2654.5	2657,08	2648.37	2353.51	4.02	1.77	17.61	86.41	1540.18
ı	-(0	Property(41)	1681.52	+0.4 1655.20	<u> 1547.98</u>	1650.09	1449.25	3.86	1,28	25.77	45.59	1038.14
1	80	INVESTMENT TRUSTS(127)	3216.41	+0.3 3207.00	3202.26	3195.84	2834.52	2.21	1.11			
Į	_	FTSE All-Share(902)									3/31	1133.45
			1960.67	+0.5 1945.00					1,92	17.31	69.03	1689.81
ı	FTS	E Fledgling	1238.90	1238.97	2 1238.78	1240.13	1073.76	2.81	0.60			
١	FTS	Fledgling ex IT	1250.20	1250.70	1250.65	1252.00	1070.18	3.03		20.00	27.50	1309.40 1322.96
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н		Open	9.00	10.00	11.00	12,00	13.00	14.00	15.00	18.10	High/day	Low/day
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DAY OCTOBER 2 1/4 FINANCIAL TIMES WEDNESDAY OCTOBER 2 1996 **WORLD STOCK MARKETS** Highs & Lows shown on a 52 week basis Str. p SGeoBla STCAM TNT 1 abcrp Wistmar Wistmar Wistpac WoodPl Windth BETTER STATE OF THE STATE OF T 580.50 1,002 565 425.50 904.50 Sendrichen in der State in der 3,5549, 8,93 3,08 1,63 5,904, 7,924, 7,94,41 20,10 2,36 8,62 8,65 2,65 135.20 130.80 47.00 130.80 100.80 267.80 52.80 37.80 52.80 32.20 42.50 67.40 86.00 97.10 218.90 2.0866 7781 7.5880 7.5881 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.5880 7.58 467990 ENGINEER SARTING SARTIN Climate
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77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 77 86 ABB B A ARA ABB B +30 54 53 55.70 26 +10 4407 25830 1.8 -30 87.30 57.50 ... -70 87.20 155 30 -22 -30 33 50 21.00 ... -440 58 78 1.0 +30 67 4250 22 -40 86 75 4250 22 -40 86 75 450 25 +1.80 217 136 1.8 April 74,75 Commol 8,890 Dolad 2,800 Erpolk 14,050 Helfo B,275 Helfor 2,950 Hercom 3,188 Ionibol 3,960 Hadisis 19,100 HONG KONG (Oct 1 / H.K.S) 1971 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 1989 | 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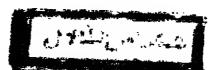
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DAY OCTOBER 2

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Dow dips on Frankfurt subdued, Stockholm climbs peak high tech profit-taking

A sell-off in the technology sector, as some investors took profits, led US shares lower at midsession yesterday, writes Lisa Bransten in New York

At 1 pm, the Dow Jones Industrial Average was 20.13 lower at 5.862.04. the Standard & Poor's 500 elipped 2.68 at 684.65 and the American Stock Exchange composite fell 2.75 at 568.74. Volume on the New York Stock Exchange came to 236m

The technology-rich Nasdaq composite slid 11.95 at

American Ordino



1,214.97 as several of its bestperforming large capitalisation shares gave up ground. The Pacific Stock Exchange technology index was 1.6 per cent lower.

All of the four blggest companies on the Nasdaq were lower, Microsoft gave up \$% at \$131. Intel was \$11 weaker at \$94%, Cisco Systems lost \$1% at \$60% and Oracle shed \$4 at \$42%.

Semiconductor shares were also moetly lower. Texas Instruments gave up \$11/4 at \$53%, Micron technology lost \$1% or \$29% and Cirrus Logic was \$1% weaker at

America Online, the online service provider that switched from the Nasdaq to the NYSE last month, shed

AOL warned in a filing with the Securities and Exchange Commission that growing competition from Internet eervice providere might

Yesterday's sell-off also hit some of the smaller companies in the sector that had begun to make headway after a difficult summer.

affect its results.

US Robotics, the modem maker, gave up \$1% at \$63, a maker of high density disk drive slipped \$1% or 5 per cent to \$231/4 and E*Group, an electronic broking house that went public in August, shed \$25 or 18 per cent at \$10%.

Elsewhere, Coca-Cola gave up \$1% or 2 per cent at \$49% after announcing a series of charges that would offset a previously announced series of gains for the third quar-

Shares HCIA, a healthcare information systems company, plummeted \$28% to \$31%, a decline of 47 per cent. The company, which has seen its sharee more than triple since the start of the year, gave a profits warning. It said its third quarter earnings would be significantly below those made in the same period a

TORONTO ended three sessions of declines with a modest mid-session rally and at noon the 300 composite index was showing a gain of 25.23 to 5.216.30.

Golds, hit hard lately by a weak bullion price, led the way up. The gold mining sub-sector put on 1.4 per cent. Banking and forestry sectors both made good progress. Real estate continued

Alcan gained 40 cents to C\$41.10 and Seagram put on 20 cents to C\$50.95. Northern Telecom dipped 30 cents to C\$78.20.

Royal Bank of Canada added 25 cents to C\$39.05 and Toronto Dominion Bank 20

Caracas pushes ahead

to the new month and by mid-session the majority of the region's bourses were showing comfortably on the

CARACAS continued to provide the main drive and by noon the IBC index was 1.26 per cent ahead and showing signs of wanting to extend the recent rally to eight straight days.

The index closed the morning up 69.06 at 5550.96. MEXICO CITY, down modestly on Mondsy, opened with further falls but there

by the noon calculation the IPC General index was 15,300 274m shares. ahead at 3,251.62. BUENOS AIRES

moved ahsad during ths morning, closing the opening session with the Merval index 0.46 higher at 559.32. SAO PAULO was said to be subdued ahead of tomorrow'e municipal slection. The market is still search-

ing for a clear lead," said one trader. However, by tha end of the morning session the Bovesna index was 98 better at 64,567.

South Africa rallies strongly

rebounded briskly during an active afternoon session and at the close the overall

Industrials gained 8.5 to 8,134.1 but it was golds that staged the strongest recovery, closing 23.5 higher at

Dealere claimed to be

Dries added R1.40 to R51. Among non-golds, Cadbury Further solid progress for German industrial production and an uptick for bonds failed to support FRANK-FURT where activity remained subdued ahead of tomorrow's holiday closure.

There was positive news from the economy with industrial production in August continuing to expand steadily. But Wall Street had a dull early session, and dealers said that there were eigns of book squaring in advance of tomorrow's shut-

They described the session as a day of consolidation at the higher levels. At the close, the DAX index stood at an Ibis-indicated 2,654.34, down 1.15.

Degussa provided some modest fireworks, surging almost 3 per cent after a etrong trading etatement from the chemical and met-als group. The chares jumped DM16 to DM568.50 in

Good nine-month sales and news of a land-mark car engines joint venture with Chrysler of the US lifted BMW by DM5 to DM878.5. STOCKHOLM was propelled to an all-time high by a 2.3 per cent jump in Astra, the pharmaceutical group,

on rumours that the chief

executive was about to

resign. The company immediately dlemissed the rumour as baseless, but the shares rose SKr6.50 to SKr286.50.

The Affärsvärlden general index was marked 24.2 higher at 2,115.5. Elsewhere, Handelsbanken

picked np SKr3 to SKr166 as it dismissed recent suggestions of a merger with S-E-Banken, which gave up SKr1 HRISINKI hit a 12-month high and the Hex index fin-

ished 12.10 ahead at 2,186.24. Merita led a rally in banks. rising FM0.68 to FM10.60 in heavy trade after a London investor completed the sale of a large tranche of the shares, reducing immediate supply. OKO tracked Merita, adding FM0.50 to FM43.50 while Alandsbanken rose FM0.70 to FM81.70.

Insurers extended last restructuring in the sector. Sampo rose FM14 to a two-

were boosted by optimistic comments by industry execntives. Rautaruukki, the steel group, rose FMIL20 to a year's high of FM41.20.

Finnlines, the cargo ship-

by positive performances by a number of large groups,

Nycomed, the pharmaceu ticals group, rose strongly on rumours that it might be taken over by Switzerland's Roche or hy an unnamed German group. The shares picked np NKr5.50 to

NKr4.50 to NKr309 after Monday's declines which followed the company's com-

year high of FM344.

Mstal industry shares

ping company, rose FM1 at FM97 in heavy trade but analysts were unable to account for the activity. OSLO was pulled higher

while Aker, the engineering and offshore group, and Resource Group International, the investment group, were both marked lower after their unexpected merger announcement. The Total index finished 5.95 higher at 845.80.

NKr81.50

Norsk Hydro rebounded

FTSE Actuaries Share Indices THE EUROPEAN SERIES Open 10.90 11.00 12.00 13.00 14.00 15.00 Class week's gains on talk of a Hourly changes FTSE Barolineck 100 1728.23 1729.14 1729.66 1730.06 1729.80 1730.55 1731.24 1731.72 FISE Barotrick 200 1787.78 1787.79 1788.54 1788.26 1787.86 1788.75 1789.64 1789.94 Sen 25 Sen 24

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ond half profits. Aker dipped NKri to NKri31 and RGI lost NKr5 to NKr61 on their

merger plan. PARIS traded narrowly to close marginally lower. The CAC-40 index, which swung gently within a range of just 10 points throughout the session, ended off 9.60 at 2,123.21.

Dealers said there were unmistakable signs of profittaking in some stocks after the recent strong run for the market, but that in general the broad mood remained confident

Sanofi topped the day' performance charts, rising more than 3 per cent following the registration of its new hypertension drug, Irbesartan. The shares put on FFr12.80 to FFr436.

Accor, which is seeking a new chief executive, rose FFr3.30 to FFr438.8 after press speculation that the hotels group was about to poach a joint managing director of Generale des

Eaux. The latter dipped FFr6

to FF1555. Lagardere, down 2.8 per cent during the morning session, ended off 40 centimes at FFr127.10 on talk that the group had failed in its bld for a big German defence

Usinor Sacilor gained FFr1.30 to FFr81 after the steel maker pinpointed an improvement in real demand for steel in 1997. MILAN took offence at

remarks from Mr Jacques Chirac, the French presidant, doubting that Italy would be among the first countries to join a single European currency. However, shares recovered from their lows after a robust response from the treasury minister, Mr Carlo Azeglio Ciampi. The Comit index lost 6.69 to 629.10 while the real time Mibtel index recovered from 10,034 to finish 102

Olivetti again came under renewed pressure after fig-

Resource stocks moved

down sharply, but industrial

shares made modest gains

and at the finish the All

Industrials index up 8.6 at

after active profit-taking,

ing the weekend news that a

down at 10,074.

lower at 2,285.5.

ures released on Monday night showed a sharp deterioration in its financial position. The shares fall L33 to L528.4 after a low of L515.

ZURICH consolidated Monday's gains and the SMI index finished just 1.1 higher at 3,737.5 as foreign demand for pharmaceuticals supported the market.

Roche, SFr15 higher at SFr9,250 was supported by a broker's recommendation while Ciba and Sandoz, which plan to merge into Novartis, hit new highs for the year at SFT1,610 and SFr1,515 respectively.

Winterthur lost SFr11 at SFr763 as the insurer techni announced first half group net profits at the lower end

of expectations. AMSTERDAM was lower having probed new highs

Hoogovens moved np strongly, advancing F1 1.40 to F1 62.70 following an upbeat statement from its rival European statement from its rival Euro rival European steel maker,

Usinor Sacilor. TEL AVIV closed lower as investors remained sidelined ahead of the start of a Middle East summit in Washington. The Mishtanim index fell 2.63 to 184.09.

Written and edited by Michael

Nikkei turns back to end five-day winning streak

Shares in TOKYO turned lower after a five-day rally that took the index more than 400 points higher. sorites Gwen Robinson.

The Nikkei 225 index lost 93.43 to close at 21,462.97 after moving between 21,430,23 and 21,563,69. Foreign investors were net sellers of semiconductor-related

Banking, steel, shipbuilding, and real estate related stocks also came under selling pressure, but construction shares rose on expectations that the forthcoming national election would result in new spending on

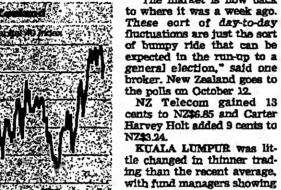
The Topix index of all first section stocks lost 4.64 points, or 0.29 per cent, to 1,622,91, while the capital weighted Nikkei 300 index yashi added Y4 to Y918. Leading Latin American was good support around the dropped 0.60 at 304.07. Vol-340m shares from Monday'a

In London, the ISE/Nikkel 50 index rose 0.63 to 1,466.82. In spite of the satback, traders noted a positive shift in the market mood. They also pointed out that much of the robust buying by foreign investors in recent sessions was due to reinvestment after the selling sprees of July and August.

The recent upbeat preliminary figuree for August industrial output led to demand for etocks like Toyota Motor, which gained Y20 to Y2,870. Honda Motor put on Y20 to Y2,820.

Semiconductor-related issues and real estate companies, all heavily bought in recent sessions, ended lower. Toshiba shed Y5 to Y766 and Oki Electric Industry lost Y13 to Y750. Mitsubishi Estate dropped Y10 to

Large-capital steels mostly lost ground. Nippon Steel edged down Y1 to Y345 and Sumitomo Metal Industries retreated Y5 to Y311.



US demand took Hang Seng Bank to an all-time high of HK\$83.25, up

from weak property stocks, tors, and the Straits Times Industrials index slipped 5.47

Dealers said that brokers

The 40-Capital index recovered 22.30 to 2,212.56.

The market is now back M\$145m loss for the year to where it was a week ago. These eart of day-to-day fluctuations are just the sort of bumpy ride that can be expected in the run-up to a general election," said one broker. New Zealand goes to the polls on October 12.

KUALA LUMPUR was little changed in thinner trading than the recent average, with fund managers showing only selective demand in infrastructure related stocks. The composite index eased

0.31 at 1134.96. Ackam, the logging company, lost 16 cents at M\$4.02 after posting a massive after a late afternoon uptick

ended June 30 1996. Ekran, however, added 30 cents to M\$11.10 on results that were significantly boosted by fees related to the Bakun hydro-electric dam

SKOUL encountered selling pressure from domestic institutions, while foreign investors selectively picked up newly available shares, as the foreign shareholding ceiling was lifted to 20 per cent for most stocks from 18 per cent. The composite index eased 0.20 to 789.47.

Samsung Electronics was a etrong target of foreign buying, ending Won2,200 higher at Won57,000. SYDNEY closed off it lows

although turnover at Bi6.7bn was roughly half Monday's levels. The SET index ended 13.37 down at 1,085.64. The SET jumped almost 5 per cent on Monday follow-

general election had been called for November 17. Brokers said profits were taken yesterday in spite of a

for industrial stocks which better than expected inflation number for August. bounced on hardening interest rate cut hopes. The All Financial stocks topped Ordinaries index finished 4.9 the activity charts, notably

> Bt72.50. TAIPEI closed cantiously higher after First Commercial Bank announced a cut in prime lending rate. The index added 9.05 to 6.513.73.

General Finance which

ended Bt3.50 higher at

BANGKOK ended lower. There was strong buying of electronics. Megamedia rose the daily seven per cent limit to T\$35.9. Acer gained

30 cents to T\$41.7. Howsver, brokers remained concerned at margin loans levels which hit a three-month high of T\$216.2bn on Monday and sparked worries about excessive speculative buying.

tary in the

FT/S&P ACTUARIES WORLD INDICES

.177.27

...586.68 1239.33 .302.98 ...84.94

index was 18.2 higher at

Shares in Johannesburg slightly puzzled by the upturn. The bullion price ebowed some resilience during the afternoon fixing, but the main drive appeared to come from bargain hunting and institutional buying of

Schweppes gained R5 to

169.34 204.70 156.69 159.97 140.57 140.57 358.73 448,13

159.55 263.05 320.58 262.33 271.58 339.59 143.50 176.16

1.9 428.97 818.48 \$58.73 448.13
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-1.0 238.31 176.93 199.29 221.78
-1.3 180.78 141.65 189.55 283.05
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127.49 143.80 286.21 289.85 171.50 188.18 103.27 116.32 176.81 197.80

192.54 216.87 138.50 156.01 232,82

180.39 203.18 216.42 183.74 173.17 190.41 227.94 286.07 278.52 114.75 128.59 118.74

171.72 127.49 358.57 286.21



Construction-related stocks were the day's clear winner, rising steadily on hopes for an upturn in public works spending after the October 20 election. Shimizu rose Y10 to Y1.110 and Oba-In Osaka, the OSE average

ume of 53.6m shares. HONG KONG maintained demonstrating resilience as some investors took profits. The Hang Seng index rose 18.79 to another 31-month closing high of 11,921.22 in turnover that picked up to

HK\$6.1bn.

HK\$1. SINGAPORE took is lead pressured by reports of softening rentals in both the residential and commercial sec-

to 2.17L69. were also lowering full-year earnings forecasts of Singapore companies after a dull first-half reporting season

which just ended. WELLINGTON moved ahead on the back of foreign based buying to retrace twothirds of Monday's eell-off.

173.71 212.18 179.77 185.82 140.95 185.94 188.11 180.87 186.37 218.68 180.88 195.61 341.20 188.70 123.97 152.53 187.42 169.95 134.14 144.53 254.77 321.85 276.89 282.30 204.30 285.87 171.73 285.87 188.28 198.38 187.70 172.87 188.28 198.38 187.70 172.87 140.82 179.28 155.86 159.47 443.31 452.38 354.67 376.42 291.83

371.26 378.22 187.51 254.34 136.22 193.95

403.31 352.38 282.51 318.61 347.11 829.10 243.14 275.07 180.47 171.10 128.41 143.01 378.22 358.58 254.83 259.72 240.62 228.32 166.86 190.84 138.09 130.92 96.73 108.43 248.24 236.30 174.58 187.51

282.51 318.61

Fresenius Medical Care - The leading global dialysis company -

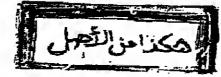
Listina of 34,790,000 ordinary bearer shares. each in the nominal amount of DM 5.00, of Fresenius Medical Care AG. Bad Homburg v. d. H., Germany, for official quotation on the Frankfurt Stock Exchange.

We are pleased to have acted as adviser to the company in connection with the listing

October 1996

Kleinwort Benson

255.84 242.56 179.21 202.74 215.10 256.23 215.17 218.62 217.77 206.47 102.64 172.58 189.02 218.38 191.44 195.12 323.18 308.42 226.38 256.11 278.81 323.19 261.13 296.02 162.11 153.70 113.66 128.47 115.26 177.01 148.86 158.25 185.17 175.56 128.71 146.74 143.40 180.57 168.51 173.51 173.51 273.07 258.90 191.29 216.40 272.34 273.48 230.17 233.27 195.66 188.80 137.27 135.29 162.85 186.73 170.51 174.93 291.58 276.43 204.23 231.05 251.94 296.66 243.58 258.26 188.77 177.08 130.83 148.01 148.21 191.55 167.36 174.50 212.48 201.48 148.84 168.39 181.04 213.05 185.51 191.32 252.86 233.28 176.77 189.56 283.84 282.60 217.28 201.48 259.33 192.54 186.55 138.50 278.41 208.70 177.30 131.63 201.76 149.81 215.68 204.48 161.08 170.92 188.04 215.97 188.67 194.25



October 21



IT in retailing: How to keep the customers happy

FINANCIAL TIMES REVIEW



US report IT in California: A key role for venture capitalists Pages 12-43

IT Directions Object technology New interest by big business

Pages 13-17



Information Technology

Wednesday October 2 1996

Smartcards: a technology whose time has come

There is an explosion of interest in powerful new smartcards which can store cash and financial records, function as a loyalty card or travel card, keep personal medical data, and provide a secure 'electronic identity', report Paul Taylor in London and

with tiny microprocessors and memory built into them - have been around in Europe for almost 20 years and were first introduced as replacements for traditional magnetic stripe cards in the French banking system during the 1980s.

are a technology whose time has finally come. Customers prefer them to pockets of loose change, retailers appreciate the added security and convenience, while financial institutions see smartcards as one means to help them retain a role in the electronic marketplaces of the future such.

as the World Wide Web. Today, there are about 23m smartcards in circulation in France, for example, where they ars mostly used as automated or credit cards. However, promoters of the technology believe that while smartcards - or chip cards - can indeed be used as a convenient replacement for cash, they are rapidly evolving into a much more useful technology. .

For example they can store an owner's medical data, execute sophisticated security schemes, store a record of cash transac-

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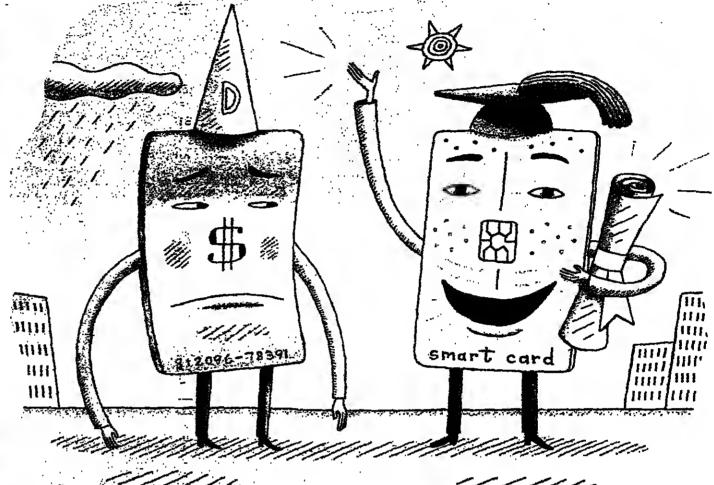
Tom Foremski in San Francisco martcards - plastic cards tions, and function as a loyalty card, giving retailers better feedback on customer spending hab-

> The latest smartcards pack the processing power of an early personal computer such as the Apple II and, using data compression, can store as much informaclosely-typed A4 paper.

Although they still cost about ten times as much as ordinary magnetic stripe cards, they last longer, can store about 80 times as much information and, since they can process as well as store information, are much more flexi-

They have recently found their way into GSM digital mobile telephones, satellite television set-top boxes, and the social security system in Spain where 40m part of a \$400m project to replace existing paper-based documents covering pensions, social security payments, employment and

Now, with the growth of electronic commerce, mounting concerns about credit card fraud and the increasing need for a single 'electronic identity', it seems that we may soon be swapping wallets



full of relatively 'dumb' plastic for increasingly powerful smart-

Datamonitor, the market almost nothing today. there could be billions of smartcards in circulation worldwide by the end of the decade, sporting semiconductor chips manufactured by the market leaders, Motorola of the US, Siemens of Germany and SGS Thomson of

This expected surge of interest in smartcard technology should also be positive news for the leading smartcard suppliers which include Gemplus, Soliac, Orga, Giesecke & Devrient and Schlum-

In Britain, the Association for Payment Clearing Services (Apacs), which oversees money transmission and manages payment clearing systems on behalf of the UK's leading banks and building societies, plans to introduce smartcards from the end of next year.

"It is envisaged that all ATMs [cash machines] and 50 per cent of the UK's point-of-sale terminals will be smartcard-based by the year 2,000 with 90m cards in circulation," according to Bossard Consultants, the European

Apacs' members believe smartcard technology - which can incorporate biometrics security features such as fingerprints will help them combat the rising costs of credit card fraud. In France, the use of smartcards

with a personal identity number, ent the costs of fraud from around \$4 - \$5 per card in 1992 to

as Philips Semiconductors, are producing cards that have sophisticated encryption technology built-in. This allows for increased security, making it almost impos-sible for third parties to decode the encrypted smart card infor-

Such smartcards could also be used to purchase products from retailers on the Internet. Computers and telephones equipped with smartcard readers have already been developed making it much easier and more secure to order and pay for goods on-line. The cards would provide verification details and payment authorisa-

n another indication that smartcard technology has finally come of age, Microsoft announced last month that it will make future generations of its PC operating systems 'smartcard

Meanwhile, the advantages of using so-called 'stored-value' smartcards to handle large numbers of low-value transactions have also been demonstrated on both sides of the Atlantic.

Visa has estimated that there are \$8,100hn of cash transactions each year in the world's top 29 economies and the banks sstimate that using cash costs Europe about £45bn a year.

In the UK, the two-year old demanding and high profile test, trial of the Mondex electronic we know it works." High potential for the use of cash scheme in Swindon, originally backed by NatWest, Midsmartcards in the US is highmunications, produced mixed dent of marketing for the Smart-

the acceptability of smartcards. The trial also demonstrated how retailers can savs a lot of money on the costs they incur in handling cash. Instead of having to count cash, store it in a secure location, then transfer it to a bank, with all the potential for human error and possible security problems along the way, a simpla swipe of a smart card transfers cash directly into a

results but nevertheless proved

During the Atlanta Olympic games, Visa and Mastercard offered thousands of people a smart card that could be used at hundreds of local retailers. Visa Cash cards, Visa International's smartcard, were used for over 200,000 transactions representing \$1.1bn during the 18-day games and proved popular with consum-

retailer's bank account.

Commenting on the Olympics trial, Mr Stephen Schrapp of Visa's European operations, says: "It confirmed three main points: first, and most important, consumers like it as indicated by the research and actual transaction

"Second, with average transac tions of \$50, it is opening up bers. And third, having put the technology through a very

multifunction smart card that can be used in different applications. As a cash card, for access to financial services, a mass transit card, storing medical data and also as a credit card with sophisticated security features," he

Although there is work on standards that would create the foundation for such a multifunction card, Nash says he is not hopeful of the outcome, and that the reality will be that consumers will probably have to carry

One area where a standard is necessary, is in the development of a terminal that can process credit cards, as well as smartcards. "Merchants don't want to have several different terminals to process different card payments. They want one terminal that can handle both smart card and credit cards," adds Nash. At the same time, smartcard

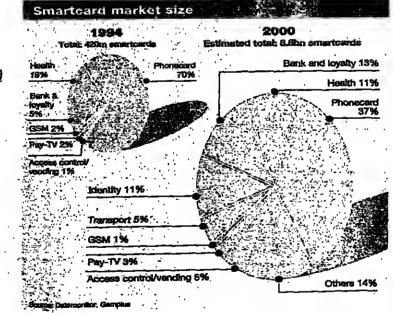
chip manufacturers are working on cards that do not need conventional card readers. For example Philips is using wireless technology to transfer smartcard stored data to a reader.

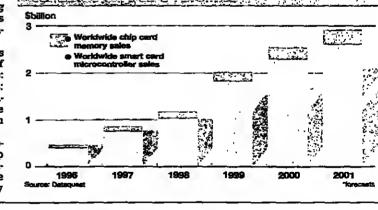
"These are passive wireless smartcards and are useful in applications such as mass transit, where there are hundreds or thousands of people passing through a specific point. It would be impractical to expect users to pass their cards through a physical reader. With passive wireless smartcards, they can leave their cards in their pockets and the readers will pick up the information," says Kees Hage, general manager of Philips' smart cards

These wireless smart cards are being used in Seoul, Korea, where about 800,000 bus passengers each day pay for their trips using the Philips cards. Such are sive as regular smart cards but in key applications, the extra cost pays for itself in the convenience and other savings it offers.

Kees points out that the wireless smart cards only have an effective range of about three feet because they do not contain their own power source, but future versions will have a larger range and will find new kinds of appli-

Indeed, as smartcard technology becomes more powerful and costs continue to fall, there seems little doubt that their usage will grow - "we are seeing an explosion of interest in the technology," says Motorola's Mr





Card Group at Amdahl, the US

computer systems and services

company - "we're offering banks

a way of easily supporting smart-

card transactions without the

worry that they may be tied to a

cash card system that loses out

Amdahl is offering consulting

services and systems to banks

interested in modifying their

computer systems to handle

smartcard-based transactions.

Nash says there are three key

areas of interest in the US:

stored-value cards, loyalty

schemes, and cards for storing

The ideal would be to have a

medical and health information.

to a different scheme.'



'Microsoft would like to squash me just like a bug'

Jim Barksdale, president and chief executive of Netscape Communications, is no stranger to competition. Netscape pioneered the fast-growing market for Internet 'browser' software with its 'Navigator' programme, but rivalry from Microsoft, the software giant, is intense

midst of the so-called 'browser wars', the US Justica Department agreed to re-open its investigation of Microsoft, the world's largest software group. The move came after Netscape Communications, the internet software pioneer, accused its main rival in the internet and intranet market, of "far-reaching anticompetitive behaviour".

Netscape's willingness to go into battle with the Microsoft marketing machine, reflects the determinetion of Jim Barksdale to defend Netscape'e position in the fast-growing corporate market for software based on Internet standards.

rently dominates the market company and to use the for browser software, Microsoft has closed the technological gap since Bill Gates, Microsoft's chairman, declared last November that the internet would be at the core of all future Microsoft developments.

Gates has made no secret of his ambition to wipe out tive is on record as predicting that his company will make Netscape's lead in the explosive Internet market, "moot". In splte of this, 52year-old Mr Barksdale - no stranger to tough competition, baving previously beld top positions at AT&T Wireless Services, McCaw and Federal Express - declares that Netscape remains confident about the future.

Speaking before the Justice Department intervention, Mr Barksdale readily lar from Lotus Development, now part of International Business Machines, and Microsoft.

"We have a high regard for both of them, great respect and a lot of good friends in both. In fact, I used to work for IBM 100 years ago," he saya, smiling. "We think we have a very good competitive position against such formidable companies.

Basically, from day one we have felt we could take this marvellous new type of open standard software called Internet software and use it for many things. One of the most obvious to us is to build what are now called 'intranets'. This is the ehility Although Netscape cur- to communicate across the products for collaborative information sharing, as well as communications, publishing and documentation.

e says Netscape's "basic competitive thrust is best-ofbreed products for intranets at best price," and claims Netscape. The Microsoft thet Netscape's core corpochairman and chief execu- rate product, SuiteSpot, works out considerable cheaper 'per-seat' than the competition, but he also believes there is plenty of room for all companies to

> "This is a new market for all of us. We are just trying to grow at the rate of the market. It's not a staid market where we have to take away share from the other guy to be successful.

"So far, we have been successful and, quite frankly, I'm more bullish about our acknowledged that Netscape product line-up now with that is the image of the com-

wo weeks ago, in the faces competition in particu- SuiteSpot and new products in our intranet server line-up and per-seat pricing, than I have ever been.

Netscape is already the faetest-growing software 'start-up', but can it expect to earn the same margins in the open software world as some of its rivals?

"I don't think we or anyone in this space of open eoftware should exspect monopolistic returns." savs Barksdale. "But I do think we can have very, very nice margins. I have the additional advantage thet I can now distribute my products on the internet and I can trial-use them on the internet without having to spend very much money at all to distribute, to market to sell or to collect - all of which are infrastructure costs.

in addition, he notes: "We have no 'baggage' to carry with us and no backlog to protect, and so from that perspective we have an advantage. We don't have an overwhelming advantage but we have the best products at the best price."

For the moment, Netscape still has a buge lead in the browser market, but Barksdale says it is "not terribly important" to maintain an 85 per cent market share. "We look at market-share as a sort of inventory or backlog if you will. The reason for having high share is so you can give away share in a pitched battle. It is your reserve. I would rather start in a fight with 85 per cent sbare than 25 per cent share.

However, he also acknowledges that it is important to keep a large share, "because



with. The proof of all this is

whether or not they buy the

products: 'chitty chats' are

not a lot of interest to me.

They are buying our product

at a very fast clip. Compa-

nies deploying tens of thou-

sands of 'seats' of a very new

product is almost unheard of

rings a bell."

because it fits a need and it

He also has strong views

on the security of the inter-

net: "The fact is the Internet

is secure. The problem quite

frankly is that we in the

far more risk giving your

It to a waiter?" he asks.

pany and that is the product have ever dooe businese that the user sees, and many of these users - who may be using our product at home are the same IT buyers who go to work. We want them to have a good perception of our product.

Barksdale says Netscape's customers' main concerns are about his company's viabilty, about not getting locked into proprietary systems and about Internet He emphasises that Net-

scape offers open software that runs on a multitude of platforms which makes it much easier for buyers to make decisions. "If you are wrong, since it is open software, you have a low switching cost. So you have the least risk of any vendor you

The fact is that not a dime has been lost on the Internet. Internet security depends on a public private key encryption technique that is now well-adopted and standardised, that is a very, very secure technique.

Would I use it though for transferring the secrets of the world? No. I would use probably another kind of network. But the value of what is being transferred is so much less than the cost of cracking, the principle of any encryption technology or any form of security is that it will cost you more to get it than it is worth."

He is also bullish on the prospects for electronic commerce, predicting that within a couple of years it will be a \$1bn industry. But be also notes, "you can make money on the Internet by selling atuff or by saving "For example, my old com-

pany, Federal Express. If you

want to track a package over the Internet, you just type FedEx, give the package number and it will tell you where it is, who signed for it, what time it was delivered. So you no longer call them that is saving FedEx \$10m e year. That is making money on the internet. That's serious, hard bottom-line stuff." But he is generally wary of making predictions: "There are all sorts of things happening in the convergence in multimedia. The problem with technologists is they alweys confuse this clear view for e short distance. So when you ask me to predict exact times, I am going to resist the urge to sound like

But I do know this. There definitely a convergence the forms of media in a point-to-point communications environment

I know these unknowable

"Basically, all of the broadcast media - from the printed book to the television - have been e compromise of media to cost. The Internet is a very effective way of reducing the cost, creating a far-reaching, ublquitous service - just like the telephone."

industry have not done a good job of convincing peodespite the focus on conple of its security. There is sumer issues, the main use credit card number over the of the Internet technology will be by businesses for the telephone and how do you know it's safe when you give foreseeable future.

"The big opportunity in meet it.



the next five years is intrabusiness communications within the business - and business-to-husiness. Communications and collaboration and open software are

he Netscape chief executive does see some obstacles to the growth of Internet computing, but ha rejects concerns about bandwidth or the internet grinding to a halt. There is plenty of capacity. it's just a matter of paying for it," ha says. "Demand drives np supply."

He also believes the current model of fixed-pricing will survive.

The internet backbone is a step-variable cost, it's not a straight line variable cost. and I can assure you that it can exist because the world is awash with unused fibre. For every one 'lighted thread' in the world, there are something like nine unlit and now, with ATM and faster switching technology. even the one being used runs at ten, twenty or fifty times faster than it did two vears ago."

In terms of computer platforms, he says Netscape's primary concern is to ensure that its software will run on wbatever types of device are in use. Netscape is a member of the consortium backing the idea of low-cost network computing devices.

I want to encourage, bely He also believes that and promote it, but I'm not going to predict whether it's going to be there - and I have a feeling, quite frankly, if this really takes off that the PC will come down to

The PC doesn't have to exist the way we know it, in other words, it will move towards this and the network computer will move up," but he acknowledges, there have been other attempts at products like this which have not been successful."

onpet ot me

He also firmly denies thet Netscape's alliance with Sun Microsystems, Oracle and the other backers of network computing is an anti-Microsoft alliand

"We don't have any backroom strategy working against Microsoft. I can't speak for the others, but we think that would be rather non-productive,"

Nevertheless, he also notes that he came from a family of six boys: "I always did better in fights when my five brothers were with me than when I was alone. I underetand that. We have more alliances with more companies in the last years and e half than you can shake a stick at."

He says he believes Microsoft "wants to squash me like a bug." But he adds: They can't squash me because I make better products at lower prices for the Internet and intranet. That is my strategy against them and I also have alliances with an awful lot of people who can market my products. But I don't think I can do much more than that."

☐ Focus on California's IT industry; key role for the venture capitalists: see report on pages 12 and 13. Interview with Phil White, chief executive of Informiz see page 17

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THE SMART MONEY'S ON

Managing data: business objectives are being jeopardised, says new report Concern over information overload

Information technology managers in both Europe and the US are growing increasingly concerned that they are not managing the growth of information across distributed computer systems effectively, according to a new

The study Managing Information Across the Enterprise: Information Growth Triggers Increasing Con-cerns, which was commissioned by EMC the largest independent supplier of storage systems, anggests that four out of every five international IT managers are either 'concerned' or 'very concerned' about their ability to manage growing volumes of information, writes Paul Taylor.

Managers also believe that high-level business objectives are being tempardised as e result - objectives such as 'generating revenues' and 'increasing competitiveness' are becoming more critical, while 'lowering costs' is still important, but of less concern than in the study e year ago. Three-quarters of all IT managers also said they do not have edequate tools to manage information growth, but performance and response times have leaped to the top of the list of concerns.

2.39

Almost 70 ber cent of respondents id they are organised, orgative process of organised, organised the process of organised organised the process of organised organised the reach basis and the process of the process o

by inappropriately managing their information and its availability said Mr Phil Payne, UK market director for Sievers Consulting. "Emerging trends, such as alectronic workflow between departments and companies, plus Internet based business transactions, have increased the bottom-line cost of downtime and the inability to access information. These risks pose a much greeter long-term impact on the overall health of a business than any previous TT challenges feced by these compa-

nies." The survey, which was conducted by Find/SVP, a New York-based market research firm, and included

between the US and Europe, key concerns. Among them respondents.

are: systems and, in turn, gener-

tives, divided equally tion, among these, database applications were mentioned highlights a number of other by almost 90 per cent of

☐ The shift towards con-D Critical applications are solidation of information access, or information botmoving quickly to open and open servers in the data centre is gaining momenating huge volumes of data turn. More than 80 per cent data managers. which are not being properly of respondents said servers managed. Online applica- are being moved back under

interviews with 600 IT execu- this flood of new informa- centre and almost threequarters favour some centralisation of either both applications and informa-

> □ Blocked information tlenecks,' represent the next unsolved critical problem for

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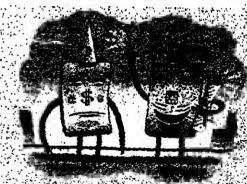
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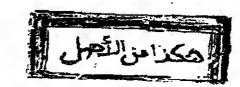
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R How IT helps keep customers happy - By Penslope Ody

Focus: IT in retailing

Successful retailers compete on value, not merely on price

In-store IT systems were once confined to clever cash registers. Now retailers seek ways to enhance customer-response and monitor purchasing patterns

ack in the 1980s when scanning systems electronic point-of-sale scanning systems and (Epos) were still a novelty, retailers' use of information technology tended to involve counting things - goods sold, money taken; or items left on the shelf.

Today, the technological emphasis has shifted: instead of "things", preoccupation is with people - tracking shoppers as they enter the store, monitoring customers' purchasing patterns or giving them the technology to do it all themselves.

The retail pundits talk of "customer-facing" systems or "efficient consumer response", while "point-ofservice" is replacing "pointof sale", and "supply chain" is giving way to "demand chain" in the retail vocahu-

In today's increasingly competitive high street. many retailers have realised that keen prices or promotional "loyalty" schemes are simply not enough: to differrest of the pack takes something extra

As Dr Leonard Berry, the JC Penney Professor of Retailing Studies at Texas A & M University and one of North America's leading retail gurus argues, there is one question that all retailers should regularly ask themselves when it comes to cess. It is quite simply: "If our company were to disappear from the landscape overnight, would customers really miss us?"

Those store directors who can honestly answer "yes". he suggests, are the ones where prices are lowest. "Retailers with a future compete on value, not solely on price," says Dr Berry. Price is price, but value is the total experience."

That "total experience" is being enhanced by an assortment of leading-edge techpologies that can range from use of radio systems for interrogating back-office computers and solving shoppers' queries on the shop floor, to the slick use of interactive media (in-store or in the home) to encourage repeat store visits and pur-

In supermarkets, "selfscan their own purchases checkout operator to do so,

Superquinn in Ireland are among a growing number of retail chains piloting similar customer-operated systems.

Self-scanning systems had been trialled - unsuccessfully - more than 10 years. but It is only now as customers become familiar with high-tech systems that the concept seems to have taken

It has been much the same with multimedia which first had an airing hack in the some 12 inch video disks. Numerous schemes have been tested since then and scanning", where shoppers most have failed: notable exceptions include Florshrather than waiting for a eim's shoe-selling kiosks in

Here and on the next seven pages, FT writers examine the impact of IT in retailing

is seen not so much as a means of reducing staff as entiate themselves from the an improved customer ser-

Safeway's "Shop and Go" service - which uses handheld scanners from Symbol Technologies, originally developed with the Dutch chain, Albert Heijn (part of the Ahold group) - Is being rolled out to more than 60

"The system has considerconsidering their future suc- able appeal to our target market," says marketing director, Roger Partington, "especially young families for whom time is at a premium.

it is these customers for whom waiting in line at the checkout - with its tempting where customer service lev- array of sweets and novelties

NET Harope Ltd., NEC House, I Victoria Road, London W.5 bl/L, UK. Fox 44-181-234-1922.

mation boxes for white goods in the UK. As with self-scanning. interactive media now seems to be gaining popular acceptance. In the US, consumer electronics retailer Best Buy

has equipped stores with a dozen interactive kiosks offering information on some 65,000 CDs, 12,000 videos and 2,000 software packages as a valued alternative to more conventional shop assistants; meanwhile, Crate & Barrel has an easy-to-use application for purchasers: an interactive wedding list.

Elsewhere, there are now numerous wine selection systems and recipe kiosks. as well as applications aimed at the next generation of shoppers: typical is Daewoo

Somerfield, Waitrose and market without a conventional network of car dealers which has a children's "design a car" kiosk to keep the little ones amused while the parents concentrate on

> direct to the home via interactive television or the

Michael Rollens, president of the New Media Network in the US is not alone in his critical opinion of current electronic shopping. He suggests that most "break the hasic rules of retailing" with their limited merchandise ranges, erratic delivery and poorly thought-through con-

Many early entrants in the home shopping arena, such as Time Warner's Dream Shop, have already gone out of husiness, while others such as IBM's World Avenue, comprising 20 retail 'shops", and e-Shop Plaza, which has just been hought by Microsoft, are proving extremely slow to really take

"In general, the Internet is not a very exciting place to go shopping," says Mr Rollens. Snch high profile developments apart, much of the customer emphasis of "retail IT" is concerned with fast identification of - and response to - changing patterms of demand.

ner at Coopers and Lybrand, the management coosultants, shows how "exploiting the data" can drive hetter in. els are highest, rather than - can be especially gruelling. - attacking the European husiness performance. He

huving the real version through a neighbouring

Many observers see these experiments as a simple stepping stone to selling points to a formula: "Cus-World Wide Weh - although tomer traffic' multiplied by even here not all experi-'customer activity' equals

ments have been successful.

systems to monitor shoppers' movements, identifying "cold spots" in the store and helping to ensure adequate staffing levels in service-critical areas. IT systems sort out "customer activity" helping to classify shoppers by "type of purchase" include the "heauty conscious", "pet lovers", "senti-

"sports conscious" and "new families") and promoting goods that will appeal to them while in that frame of mind by product juxtapositions or related discount offers. "Using these techniques." Bill Gilmour, retail parthe says, "you don't need to

know anything personal about the individual, just the mode of shopping they're The new customer-fo-

mental", "casual drinker",

(categories



This portable personal barcode scanner allows customers to total their hills as they shop. The scanner, from Symbol Technologies, works with an ICL computer system: see report, page 9

cussed world is thus one of Developments which allows data warehousing, shopping basket analysis and of seamless systems' integration so that store managers can access just about anything from anywhere. On the shop floor, this can mean electronic penpads to communicate with remote systems to solve ad hoc queries, while for merchandisers it can mean digital cameras and laptop computers. A typical user is the C&A subsidiary. Hamells, which has installed a fully-integrated Windows

application from Business

Its huyers to use digital cameras to input images of their latest selections.

From overseas huying trips, these images can be transmitted to colleagues back home for comment. Alternatively, they can be stored in the system and then used to create merchandising Ideas for display staff ate more interest about the or provide oew product products and will also training presentations for staff - all to be ultimately transmitted to the PC-based EPoS tills in branches.

"We see this as an impor-

tool," says operations manager, Mike Randle, "as buyers will be able to develop merchandise moods more

"If we can send pictures of new lines and display recommendations to the branch staff before the goods arrive in store, then it helps to creencourage them to alert good customers about expected styles" - yet another way for IT innovation to add to that total "service offer"

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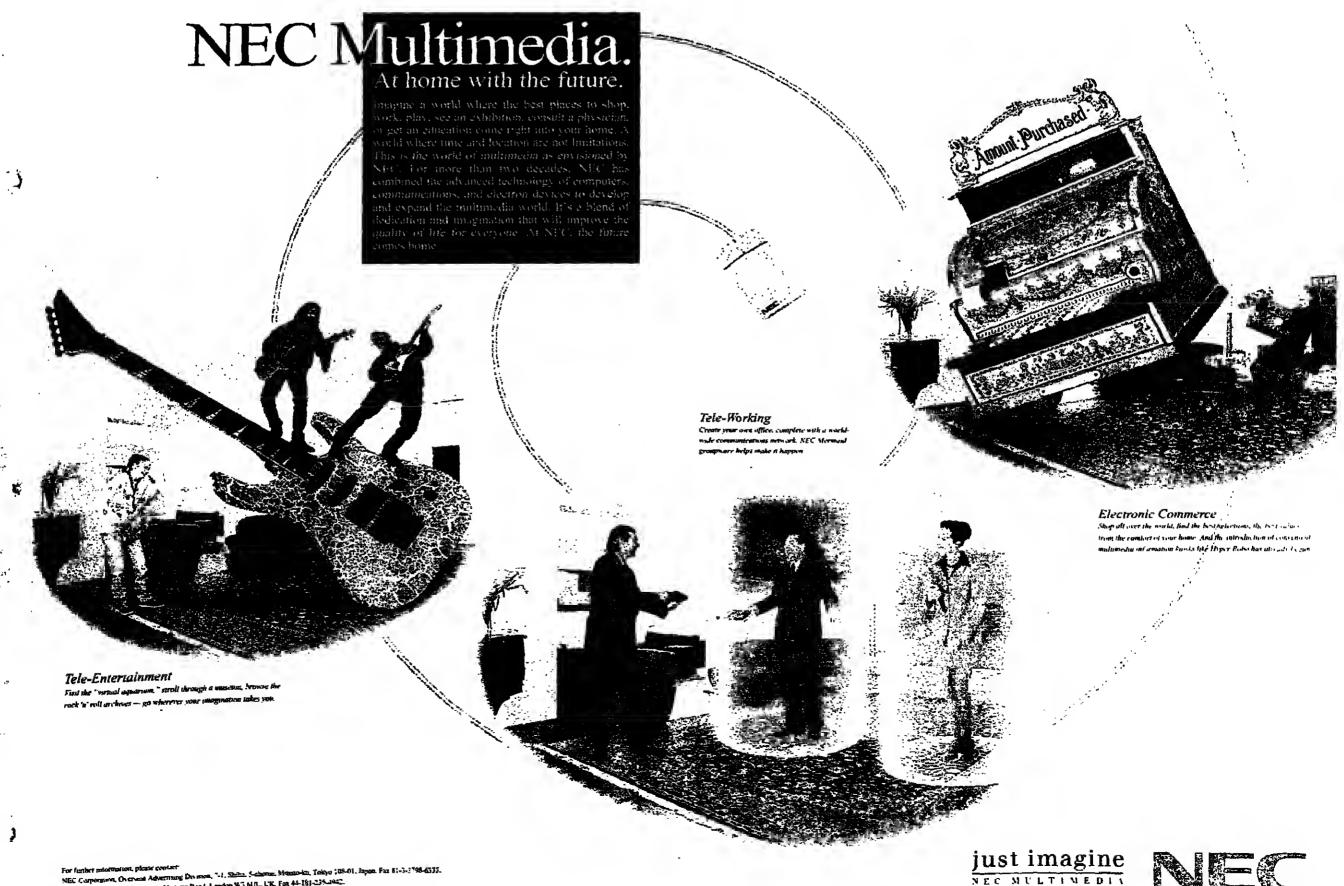
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IV

Number-crunching produces vital sales information

Retailers are at last starting to make full use of mountains of accumulated data - with highly profitable results

or a decade, many leading retailers have collected reams of item-level sales data, numerous lists of which products customers bought during a single shopping trip, information on bourly trading peaks and troughs, and enough numbers to allow comparisons hy any product, any branch, or by any time

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Unfortunately, the number-crunching needed to pull the facts into a truly useful report generally meant that management information was limited to exceptions and trouble-shooting.

With modern client-servers and powerful data warehouses now replacing lumbering legacy systems. retailers are at last starting to make full use of all that dramatic and highly profit-In the UK, Woolworth

installed a Tandem processor, SQL database and Microstrategy's DSS Agent management tools last year. The system allows users to

pull any data - gleaned from transactions, eupplier or store records - from the central repository and assemble it into a multi-dimensional format for further analysis. "It allows us to measure

performance across any group of products and any combination of stores," says MIS director, Dan Bernard. "For example, it has made it very easy to establish performance in our 'price crash' promotions where we cut the price of kitchenware in those stores where we were competing head-on with a particular chain of hardware discounters.

Woolworth has also been able to monitor merchandising experiments more successfully: before Christmas, various Disney lines were brought together into a special section in some brenches and spread lar class of merchandise.

accumulated data - with through conventional says vice-president for IS. departments in other stores. Managers were able to monitor the success of the

experiment on a daily basis, whereas previous trials demanding the analysis of a group of seemingly random product codes had tied up the IT department in a weekend of number-crunching. Data warehousing is also

helping chains to tailor their product assortment to local demand more precisely. In general, large retailers have found it almost impossible to fine-tune product allocation to meet local purchasing trends so that fluctuation in demand leeves over-stocks in some areas and a dearth of merchandise in others. In the US, lingerie specialist Victorie's Secret - using

e similar Tandem/Microstrategy solution to Woolworth reckons to have improved sales of some lines by 40 per cent by changing its size distribution without increasing stock levels over-all.

"We've also identified a potential for \$3m savings in mark-down expense by varying promotions on a particu-

Richard Amari.

UK retailer WH Smith, which has installed a massively parallel processor from NCR Teradata, began using its data warehouse to improve product assortments and marketing although use has now spread throughout logistics and finance areas as well.

onventional local analysis becomes "e eelf-fulfilling prophecv." says Hugh Reader, IS director for WH Smith Retail. "The marketeers say thet the main catchment area is 'type X' customers, you stock products to appeal to type X and you attract those sorts of shoppers.

"We can now look at what actually sells in a particular store and rapidly pick up on product types that perform well from Epos data, but which don't necessarily conform to the original store model. Thus, product assortments and ranges can be revised to match real rather than theoretical local demands."

As experience grows, mer-



Data management: Safeway, the food retailer, uses IBM software for its data warehouse system, helping the company to increase profitability and market advantage

local consumer expectation and demand to product assortments, rather than simply pumping standard goods into each marketplace.

"It is transforming the way we do business, making us more dynamic and responsive," adds Mr Reader. The system is also helping with advance trend-spotting

and sales forecasting: in the fickle world of computer games, for example, WH Smith has been able to pinpoint which are emerging best-sellers and which fading from fashion and has been able to amend orders accord-

chandisers are matching ingly: in the old deys it could take seven days to ess performance, but with the data warehouse the same analysis is achieved in e few

> "WH Smith has been undertaking some fairly radical restructuring and re-organisation in recent months," adds Hugh Reader. "If we hadn't adopted the data warehouse approach when we did, then those changes in the business would have been much more difficult to achieve."

The data warehouse could. theoretically, hold information about every aspect of

the business from customers and product lines to staff records and financial information - and given the increasing integration of retail departments, this could eventually become an

attractive option. Retailers in the vanguard of data warehousing have preferred to start with simpler, more focused developments. In the US, for example, mail order specialists Land's End have used IBM solutions to develop a customer database which helps target promotional offers to those shoppers most likely to respond to them.

Petrol retailer, Fina has preferred to start with fuel sales and uses its IBM database application to monitor sales at 1,500 petrol etations on a daily basis, using modelling tools to simulate competitor activity and distribution problems in planning deliveries.

Also in the US, Food Lion. which has 1.074 supermarkets across 14 states, is using a Red Brick data warehouse for category management an aspect of efficient consumer response (ECR) which generally involvee close co-operation with suppliers who help co-ordinete product choice and space allocation with a specific merchandise category.

The system manages product categories by store level, creating a massive 100 gigabytes of raw data which is accessed by 65 merchandi-

"We made a strategic decision to move to category management about 18 months ago," says Ames Flynn, director of systems services. "We needed to find a data warehouse that would give our users the flexibility to analyse data from several dimensions."

As users realise just what sort of queries they can solve, using the data warehouse resources, so the range of complex tools for data mining, linear programming or regression modelling grow.

Most are designed to run under Windows and appeal to the non-computer expert. Equally, while many data warehouse solutions simply demand a common pot of information which managers can tap into at will, the datamart concept, where this raw data is predigested and and faster for managers to

use on-line analytical pro- "multi", he says.

cessing (Olap) servers which pre-compute all possible combinations of actual and derived data, so when the users asks for a report on products X, Y and Z in branches A, B and C, the information is quickly retrieved by accessing

labelled data elements The UK shoe retailer. Clarks, is installing a system using Essbase from Arbor Software with an Arthur planning system from Comshare: "We have a database covering more than 600 shops," says project manager Richard Crowin. "Accessing the data directly proved too slow. So we're putting in the data mart level between database and users which is improving access times:"

his type of approach could become even more common as the data level rises. In the US. American Stores has spent the past 18 months putting certain aspects of its food business into its data warehouse. The total so far is a third of a terabyte of storage (333 thousand million bytes). and once 'non-food' is added. that is set to rise to 2TB within another 18 months and all that using what system designer, BACG, describes as "lightly aggregated data".

"In our system we don't currently capture every item. in every basket and record it individually," explains Charles Cowan, product director, merchandise for BACG. We combine it by day or week and by price, so a retailer knows he has sold, say, 10,000 wholemeal loaves at £1, and 2,000 at a markdown price of 80p. There's a lot of interest in recording market basket data, but the storage needed is the biggest problem."

Mr Cowan believes that just as a few years ago gigabytes were associated with mainframes, but now are commonplace on PCs, "so with terabytes - by the end of the century 10TB is going. to be normal for a data warehouse," he says. "We are already looking at developing tools and applications to support that sort of opera-

For those retailers determined to be first in the field. pioneering costs are likely to be high - typically, software to manager a data wareformatted, making it easier house on the scale of American Stores' will be well into access, is also gaining six figures - and the hardware will be multi-million ~ These systems generally with the emphasis on

The supply chain, P. By Tom Foremski

It pays to share data

Retailers can now plan promotions for best effect, rather than launch a blanket, scatter-shot approach, by using new IT sales data systems

t may sound like a mean-ingless marketing phrase, but Efficient Con-which can then schedule sumer Response (ECR) is becoming a key fector in helping retailers in the US to expand their sales and profits by sharing sales data between retailers and their suppliers.

However, this sharing of data involves a significant element of trust that must overcome a traditional tendency not to share customer data. Companies that are able to overcome their initial fears, are discovering that ECR can quickly pay for

ECR was developed in the US in the early 1990s by the US consulting firm Kurt Salmon Associates (KSA), working with the US Food Marketing Institute. KSA proposed a eeries of "best practices" models to cover such areas as direct store delivery, category manage-ment, and computer-assisted

ordering.

Although the various components of ECR are familiar to retailers the world over, ECR is promoted as a complete package of IT-related components that work to remove inefficiencies in a retailers' supply chain.

The basic concept of ECR is straightforward: retailers collect data on what their customers are buying, the amounts sold and which geographic markets favour cer-tain products. The information is passed back to suppliers who tailor their production and delivery schedules to ensure that products reach the retailers customers

With modern IT solutions, it is possible to capture and distribute such data in almost real time. Electronic point of sale (Epos) data can new deliveries.

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Other benefits of ECR allow retailers to identify slow-moving and unprofitable products and tailor the contents of a supermarket to its local customers. For example, one supermarket chain found that although a Greek-style yoghurt it carried in some of its outlets was not profitable, it drew in up-market customers who purchased large amounts of other more profitable prod-

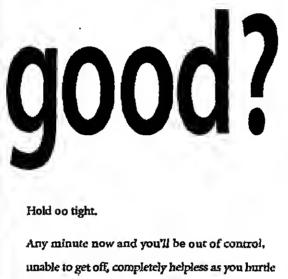
ECR can also provide retailers with better informs tion on how to plan promotions for best effect instead of a 'blanket' approach - and it allows for more efficient product introduction, a key factor in the grocery market which sees thousands of new products competing for himited shelf space every year.

But sharing customer is a sensitive issue. Collecting such data can be expensive and organising it into useful information is some times difficult. Sending this information to a supplier instead of just sending an order seems to run against the grain for many retailers. While ECR has taken off in the US, European retailers are traditionally more conservative and there are some concerns that ECR may be somewhat over promoted.

Although ECR is applicable to virtually any retailer, it is the grocery chains that have been at the forefront of implementing ECR methods. Margins are very low in Procesy retailing. Sometimes the manufacturer makes more money than the retailer, so anything that

Continued on next pag





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How to gain a 'global' view of the business

Retailers have long used IT to boost efficiency and cut costs, but now they want to unlock the full potential of technology to create a more customer-focused retailing model

ystems integration seeks to break down information harriers. allowing retailers to pull data together to obtain a truly 'global' view of their

Acquisitions, multiple store formats and shortsighted investments in the past have left most retailers with a mish-mash of hardware and software 'whose whole is too often less than the sum of its parts'. The drawbacks of such systems hecome more apparent as retailers try to shift from an essentially paper-based culture to an integrated online environment better suited to today's fast-changing trading conditions.

"Systems integration is always an issue when you try to build a common platform," says Jonathan Eales, the IT services controller at Woolworths, the retail group in the UK.

Not long ago we had just a mainframe - now we also have five IBM AS/400 computer systems, a Tandem data warehouse and a number of networks.

Integrating these different systems to work well together has proved a challenge - "it's no good having a super data warehouse if you don't have a good system to actually deliver the merchandise or stock-tracking systems in stores," he says. Many retailers want to move from mainframe-centred systems to distributed client-server environments that offer greater flexibility and allow powerful applications to run at both head

office and store levels. "The future is client-server with data available to all applications and a data warehouse at the heart."

says Eales.

Systems integration plays a key role in enabling this transition and it has become an attractive market for PT vendors as margins are usually higher than those from selling hardware, Olivetti was one of the first to enter the market, helped by the fact that it never made mainframes and thus had to learn to integrate its store systems into mainframe systems of other vendors.

ICL Retail Systems also emphasises its experience in multivendor environments and has a dedicated Retail Integration Centre in the

IBM starts with the advantage that most retailers have an IBM mainframe, though It now claims to have the systems integration skills to help retailers maximise their technology investments regardless of source.

In the past, retail systems were designed to automate a particular function with scant regard to their wider impact or future needs.

For example, supermarkets originally installed electronic point-of-sale (Epos) scanners to automate ordering. Now, many are discovering the hidden value of their Epos data - for detailed analysis of seasonal buying patterns, for example - but their current systems do not let them fully exploit this rich information source.

analyse the Epos data," says Rolf Wild, an IT manager with Migros Genossenschaft, part of Swiss retail group Migros. It has invested heavily in front-of-store technology, installing ICL Epos scanners and ISS400 store management software. The terminals can handle foreign currency and electronic purses, while customers in rural areas, who cannot get to a bank, can withdraw eash without making a pur-

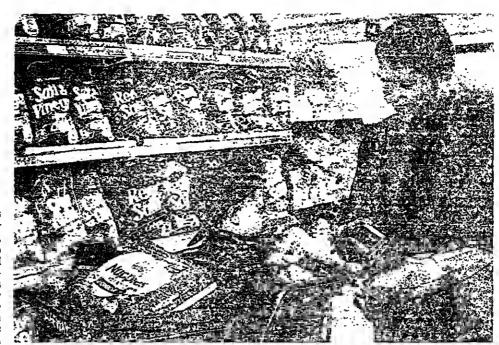
In contrast with the instore innovation, the central IT functions have lagged behind. Migros is now trying to catch up hy huilding an Oracle-based data warehouse to allow head office staff to analyse Epos data. The company wants its new system to integrate with existing and future applications.

"We huilt the application programming interfaces before we built the system.

Systems integration is an attractive market for IT vendors

This means we can put in another system without baying to start from scratch." says Rolf Wild. Several software houses have developed applications to integrate store-level functions previously handled separately. CounterPoint. from the US

firm Synchronics, is an example of this new breed of tightly integrated packages and it covers the full range of retail functions, from Epos handling and order processing to inventory management and credit card processing. It also has modules to handle electronic mall. "At the moment, we can't labelling and the special



Potential coldmine: leading retailers such as LL Bean, Autozone, Safeway, Bass, ShooKo and Lowes all use IBM software to overcome the information overload to sift through raw nuggets of sales data

needs of fashion retailers, been available to measure or linix.

Nevada Bob's, a worldwide chain of golf shops, is installing CounterPoint on IBM's SureOne PC-based Epos terminals in all its US stores. The aim is to centralise Epos operations and automate stock replenishment by linking Nevada Boh's suppliers to the Epos terminals.

Another example of tightly integrated software comes from Schedule Works, a UK firm. Its Integrated Service Management System optimises staff scheduling in stores, so Improving customer service and reducing staff costs. ISMS can cope with the complex shift patterns typical in retailing and integrate with a central payroll system, so reducing the need for head-office staff to manually process time

Store managers can forecast customer traffic and schedule staff to match the varying traffic during the day. The latest module in ISMS uses video cameras to count customers in the store and compare them with predicted traffic, so giving early warning when checkout queues are likely to form, for example. The video-based was recently installed in a branch of Savacentre hypermarket.

The software runs under Dos store performance, so for dising and property manageyears nobody knew anything about what customers were doing in stores," says Michael Buckley, marketing man-

ager at Schedule Works. A central aim of ISMS is to give managers real-time snapshots of how the store is performing throughout the trading day.

"Key performance indicators", such as sales per hour worked, are displayed graphically on a PC. Warning messages flash when service levels drop or costs rise. Maoagers can be kept informed on the store floor using one of the new generation of multifuuctional mobile computers for retailers, such as IBM's SurePoint.

The SurePoint is penbased handheld device that allows managers to obtain information about the store's operations via a wireless net-

Alternatively, sales staff can use the terminal to make order enquiries for customers and process complete orders, thanks to the SurePoint's Epos functions. while an integrated scanner allows inventory manage-

The ultimate in integrated software comes from the UK software house. Business Development, Fashion Yield is a suite of programs that part of the Sainsbury group. aims to cover all the needs "The technology has not of a fashion store, from buy-

The modular software runs under Windows and can integrate with a retailer's existing accounting. Epos, stock control and executive information systems.

One module optimises merchandise management using Epos sales data, while another improves project planning and budget tracking for store refurbishments and other projects.

Fashion Yield also has two applications designed specifically for fashiou retailers. The first, Yield Collage, allows buyers to view and organise garment designs and fabric swatches captured using digital cameras or scanned images.

lmages can be captured oo

foreign huying trips using a ootebook computer and transmitted back to head office via the Internet. This speeds decisions and shortens time to market - particularly important for fashion retallers. The second modple. Yield Display, is aimed at visual merchandisers and allows uon-artists to produce images of proposed store layouts using virtual reality

Merchandise images can be dragged and dropped on to display units and the visual impact judged from different angles by "walking through" the vinual store.

improving the supply chain

US suppliers set the pace

generates a lot of interest. ECR has shown that it can quickly pay for itself in a matter of months," says and stocking the shelves, Richard Fiddis, managing and getting paid only when director of UK based Marcam EMEA, which provides ECR software systems.

Fiddis adds that a key feature of ECR is that it can calculate the profits generated by each batch of product, not just the average profit or average cost of manufacture, but a more specific measure that takes into account all the costs involved in bring a product to the cousumer in a specific

As more and more retailers adopt the various components of ECR, it is creating a situation where suppliers that are not willing to work with a retailer with its ECR system can find themselves without a customer.

"One of the retailers we work with, for example, found that the forecasting data it received from a supplier was so out-of-date and useless that it was unprofitable to continue doing busiuess with that supplier." says Fiddis.

Supermarkets

But ECR is not a final destination since it encompasses so many facets of the supply and retalling business. Some large European supermarket chains, for example, bave had many of the best practices methods outlined by ECR in use for many years.

Grocery chains such as the UK-based Sainsbury's, Tesco Netherlaods-based Albert Helin have been using electronic ordering. and sales-based ordering for many years, although smaller retailers are only just beginning to adopt more of the ECR philosophy.

In the US, the giant retaller Walmari represents in many ways - an ideal that other retailers are studying as a case study in chain; see report, pages 10

Continued from facing page: the use of ECR. Walmart has been a leading exponent of helps to improve margins what is called Vendor Managed inventory (VMI) in which the supplier is responsible for forecasting demand, there is a recorded sale.

US manufacturers, such as Tambrands US. have reported big increases in sales due to VMI. And Welch's, a supplier of grape juice, reports that VMI has belped it boost its sales through Walmart by 25 per

But in Europe, there is still scepticism towards VMI. Sainsbury's for example. sees VMI as turning over a key asset to their suppliers and it believes it better understands its customers than its suppliers. This is certainly true if the retailer decides not to share customer data but if it can supply the right kind of data, and the right quality of data to suppliers, such concerns can be eliminated, say ECR supporters.

ECR is also emerging as a key method in bringing new products to market. Bass Brewers, for example, said it managed to introduce its Hooper's Hooch Alcoholic Lemonade in just six weeks from product idea to delivery on store shelves.

But for many retailers and suppliers, the holy grail of ECR and all its benefits is a distant promise if they bave not yet developed basic IT systems that can give them an accurate picture of their inventory levels and custom er-buying habits,

Eventually, ECR will lead to an electronic link direct to the customer. Andersen Consulting predicts that by the year 2005, as much as 20 per cent of commodity groceries will be bought without going to a traditional grocery outlet. Retailers and suppliers. thus need to be more focused on the consumer - or risk getting left behind by more adept competitors.

Logistics and the supply

Mike wants to install Lotus Notes Release 4:

If 2,352 people in 8 departments will use it, how many servers will Mike have to add?

a) 8 b) 16 c) 24

The correct answer is: d) None of the above.

Because Mike chose the RS/6000 Notes Server he can addusers without adding servers.

Well, that was easy.



Can your Notes server do this?

While Lutus Notes Release 4 can be the answer to your collaborative computing prayers, it can also raise some

While is a reported continuous in the E.S. and other countries of the Property Property Continues of the Con

important questions. Like how many servers will you need to handle the added users Notes Release 4 supports? Fortunately, there's a rather simple solution; the RS/6000 Notes Server,

By consolidating your existing servers with the UNIXbased RS/6000 server, you can take on more users without bringing in more servers. And because the RS/6000 offers unsurpassed scalability, your business can grow with it, not

What's more, the RS/6000 Notes Server lets you

manage your entire network from one location, reducing the need for additional resources and staffing. Of course, you won't be left to work things out on your own. Our RS/60000 specialists will help you design a customised solution that best meets your collaborative computing needs.

How can the RS/6000 Notes Server help your

company get more out of Notes Belease 4? For the correct answers, visit us on the Net at www.rsfa000.ibm.com or call your local IBM representative.



The IRM nome page Cut to Sound at hits. I have been true

■ On-line retailing • By Christopher Brown-Humes

ew things excite retailers - or divide them like the outlook for electronic bome shopping.

According to one view. sbopping over the Internet and other new media is overbyped and floundering.

have no impact in the next five years eod minimal impact in the next ten years." says Mr Ricbard Perks, Verdict's senior retail consultant.

But other experts predict on-linc shopping could account for as much as 30 per ceot of retail sales by 2005. suggesting a big revolution in shopping habits within ten years. In the US that would make it worth up to \$150bn and in the UK up to £21bn, according to the consultants Cap Gemini.

Verdict's argument is that the technology is not yet adequate and consumers are not ready for electronic bome shopping - "the fundamental problem is that the majority of people like shopping. They prefer to see, touch, try out and try on goods they are thinking of buying " it says.

The alternative view is that technology is improving rapidly, that Internet use is rising quickly, and that ooline shopping will be natural to a generation brought up on computers and Ninteodo games.

Increased pressures oo time plus rising traffic congestion also favour on-line buying. Electronic bome shopping comes in many forms, but the main ones are the Internet, TV cable and setellite, aod multimedia

The pbenomenon ia furtbest advanced in the US. which has deeper personal computer peoetration rates than other countries and a

Views clash over electronic home shopping prospects

rea and noundering.

*Electropic shopping will A revolution is retailing – or just an over-hyped concept? On-line shopping comes in many forms and the experts remain divided



long tradition of bome sbopping by catalogue. It is estimated that 2m online purchases were made in the US last year - but that only equates to a single purchase by less than 1 per ceot of the

One of the biggest US successes has heen Amazon Books, which - with an offering of a million books claims to be the biggest bookstore in the world. Significantly, it has no shops. just a giant warehouse outside Seattle. This means it has much lower overbeads and a broader range than its competitors - core ettrac-

tions of oo-line retailing. The

frightening aspect for established book retailers is that it has risen from nowhere in little over a year.

Most experts believe there is a future for on-line retailing for commodity items, such as wine, chocolates, CDs and videos, flowers and standard groceries. Indeed, many projects have already been launched in theae areas. But observers are more divided about the potential for items such as clothes and fresh fruit where "feel and look" are more important,

One sector that could be revolutionised by technology is catalogue shopping,

involving a switch from printed material and post to screen and oo-line buying. indeed, Jeremy White, chairman of Nettec, a specialist in Internet, predicts that as much as 50 per cent of catalogue buying will be done electronically in the US by

the year 2000. in the UK, bome shopping groups are starting to take these possibilities seriously. The most ambitious move so far into on-line retailing has been made by Great Universal Stores, the UK'e largest mail order group, with the launch of ShoppersUniverse.

In general, UK retailers

have been slow to embrace the electronic shopping revolutioo. Although many are putting up web-sites, they are advertising their wares rather than selling them. Those who are offering Internet sales are doing very little husineas. This is mainly blamed on low levels of persocal computer penetration and difficult internet access. But that is changing rapidly, with some experts predicting that 5m people in the UK could be linked to the Internet by the year 2000.

Retailers have plenty of reasons to sit oo their hands and do nothing, not least because they do oot want their stores to turn into ghost-towns. But, equally, they do not want to be bypassed by manufacturers. foreign retailers and start-up

Apart from the over-riding question of personal computer penetration rates, a number of issues have still to be resolved before the corporate clients and the credibility of electronic home shopping is enhanced. They include cost, distribution (people physically being at home to take delivery of goods so they are not stolen and frozen goods do not melt), and the speed of log-on times and graphics

quality on the Internet. There have also been widespread fears about fraud on the Internet and credit card numbers getting into the wrong hands. But the concern is acknowledged, and encryption techniques and other secure trading mechanisms are being developed. Some say you are more likely to suffer credit card fraud when paying for e restaurant meal.

Electronic shopping is clearly going to expand, but at what pace is hard to say. The expension will take many forms. Mr. Rick Peel, of the COBA consultancy group, says: People are going to use different media at different stages of the ehopping experience. They may browse on the Internet, for example, but still pur-

chase in a shop." He edds: "We believe the impact of multimedia on shopping will be as much in the street, on the move and within traditional retail outlets as it will be in the

CASE STUDY

Home shopping in the US . By Tom Foremsle

Peapod service saves time and adds value

US-based Peapod is one of the premier home shopping services using electronic links from the customer to a local supermarket to deliver groceries to e home or business

The service is currently evailable only in four US metropolitan areas which include Chicago, the San Columbus and the Boston

The service costs \$6.95 per month and customers pay e \$6.95 delivery fee and five per cent of the total grocery bill. Orders are made via computer and computer modem using Peapod'e proprietary software which is available for IBM PC and compatible personal computers and Macintosh computers.

Users can download the software from the company's Internet web site and make their grocery choices from the list of products offered by a local supermarket. They can use discount coupons in the same way that they would if they actually visited the store, and Peapod will offer comparable substitute items automatically if the specific product is unavailable,

The grocery selection is made either through the creation of e personal list of regular grocery items or by

roaming the virtual supermarket by individual aisle. Shoppers can also choose items by category and by name.

Peapod customers report that they can save three to four hours each week by using the on-line service. Peapod adds further value with its software by offering nutritional information on the grocery products and

also recipe

Although Peapod targets home-based users, it also promotes its service to businesses, since often a company will buy groceries for staff snacks and special events. It also hopes that companies will offer Peapod as e staff benefit, allowing employees who do not have e computer at home to use the office computers to order their groceries during their lunch hour or after

Families About 80 per cent of Peapod customers are women, reflecting the gender mix of shoppers that usually shop for groceries. Almost 90 per cent are college educated, and about 60 per cent of users have children, indicating the high time-demands of grocery ahopping on people with

Peapod says that most of its customers shop between 8pm to 1am, usually slow times at US supermarkets: The everage time shopping is 37 minutes with an average order of \$100, made

about twice per month. Peapod'a main focus since its founding in 1989 has been on the shopper, but it also realises that the data it collects on customers' buying habits can be useful to research companies Peapod customers in the future may be offered new products as a marketing test before the products are

evailable elsewhere. in a way, Peapod is an extension of the supermarket into the home and thus could be an important component of a retailer's efficient consumer

sponse strategy. The main drawbacks are that even in the few US metropolitan areas that the service is available, it is limited to just one leading supermarket. Offering a home grocery shopping network that gives users a selection of supermarkets would give users a chance to take edvantage of different promotions and patronise their favourite

supermarkets. Peapod is promising more retailers in the future as it expands its service further.



US retailers lead the way with ECR applications; here a service terminal from ICL is used to help design a dream kitchen for a potential customer at a branch of Courtesy Stores

European viewpoint on ECR - Dy Geoffrey Veri

Potential for big savings in the food industry

Up to \$33bn a year could be saved by applying 'efficient consumer response' (ECR) principles across Europe's grocery industry

e hot topic with US retailers - see reports on pages 4 and 5 - their Euroshare the same early enthusiasm, claiming that an idea born in the US would not adapt to Europe's different retailing environment. New research suggests this is not so and Europe's grocery industry could, in fact, cut its prices by \$33bn, or 5.7 per cent, by fully applying ECR

Europe is now e promising market for ECR: its consumers have become more demanding, diatribution costs have risen, while saturated markets have clipped food retailers' expansion plans and forced them to seek new growth from their

existing stores. Retailers thus need to know their customers better and respond faster to their changing demands. ECR aims to do this by breaking down the barriers between manufacturer and retailer thet have traditionally slowed distribution and increased costs.

"ECR has two major benefits: on the supply side, it dramatically lowers costs and reduces inventory levels. while on the demand aide, retailers get oew growth," says Micbel Tatibouët, ECR co-ordinator et Coopers & Lybrand's Paris office. The management consultancy advises the European ECR Board, set up in 1994 by a group of 20 leading consumer good manufacturers and retailers.

Coopers & Lybrand conducted pilot ECR projects with 15 member-companies in seven countries and calculated that savings of \$33bn could be echieved by applying ECR across Europe's grocery industry.

The comparable figure for the US is \$24bn, equivalent reduce paperwork between to a cut of 8 to 10 per cent. Of the potential European price cut of 5.7 per cent, the lion's share - 49 per cent comes from lower operating costs, while a smaller sav-

Thils 'efficient con- by manufacturer and retailer reducing their stock levels by an average of 42 per cent. Synchronised production is the most significant factor pean counterparts did not in cutting stock levels, while the most effective method to reduce operating costs is

supplier integration. France is e particularly promising market for ECR. Two of the largest retailers. Auchan and Promodès, owner of Continent hypermarket chain, are members of the European ECR Board, as is Danone, the French food manufacturer.

Growth in the French grocery market is slow because of legal restrictions on new sites and price controls to protect smaller shops, while the hypermarket and supermarket sectors are intensely competitive.

The advantage of ECR is becoming much more obvious to French retailers who have to increase the efficiency of their existing square metres," says Tetibouet. Many of the ideas ECR incorporates heve already been edopted by Europe's leading food retailers and manufecturers, though they do not neces ily buy the whole ECR philosophy.

Using EDI and Epos terminals, automatic store ordering and synchronised production can be put in place, so cutting stock levels and distribution costs and allowing retailers to respond quicker to new customer demands.

In the Netherlands, retailer Albert Heijn has set the paca with sales-based ordering, automatic replenishment and technologies such as EDI.

"In two years, all our suppliers will be using EDL," says Gert-Jan Von Loo, manager for store systems at Albert Heijn,

suppliers and our warebouses. The second is to shorten lead times."

Albert Heijn is a member of European ECR Board and claims to be the largest ing, 0.9 per cent, is achieved Dutch food retailer with 640 outlets. It started to streamline its logistics in 1994 when it introduced its "Today for Tomorrow" concept: goods ordered today arrive at the supermarket tomorrow.

Before, Albert Heijn had e petchwork of warehouses with different ordering cycles and delivery frequencies for different product groups. Today, there are just four regional distribution centres that handle all types of product and only two goods flows - refrigerated and non-refrigerated.

Deliveries to the stores are made daily in smaller, more manageable quantities and the orders for the following day are obtained from the Epoe sales data of each store. These are sent overnight from the stores' Unix systems to e central IBM mainframe.

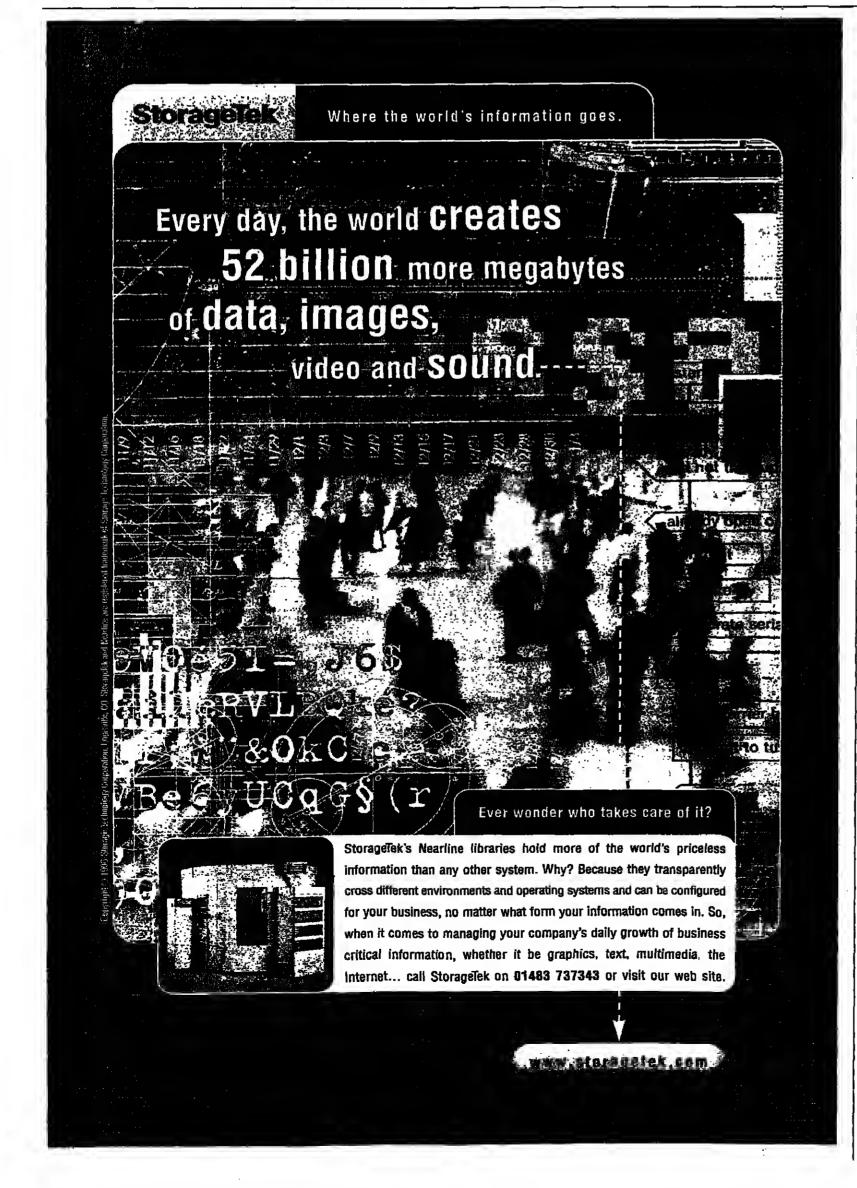
Albert Heijn wants to go further end reduce lead times from 18 to less than 10 hours. It is also working with its main suppliers, such as Dutch brewer Heineken, on a concept cailed "total

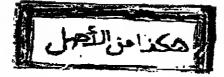
supply chain management". Orders from stores are passed directly to the supplier so that within six hours of an order being received, it will deliver the goods to one of Albert Heijn'a distribution

The idea benefits both partles: the retailer eliminates the large stocks previously. carried in its stores and distribution centres, while Heineken gets round-theclock information about what its consumers are drinking.

This, according to Coopers. & Lybrand is typical of how ECR will be applied in the future. Once distribution has been streamlined and costs cut, future retail battles will be fought over "category management" - meaning product launches, promotions and optimising the mix of products on shelves.

Here, sophisticated database systems, fed by Epos data, will play an essential role in belping retailers better understand customers' spending habits and stock their shelves accordingly.





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20,000

made purchases to focus attention on the regulars. He believes that within eight years, 80 per cent of retailers will have de-averaged their customers and

Focus: IT in retailing

Retail kiosks . By Michael Dempsey

Retailers jump Car buyers' screen test on the loyalty bandwagon

With the increase grammes in place. Some personalisation of offers is in loyalty cards. already starting: one Milretailers are using waukee supermarket has a VIP scheme where shoppers IT to keep track swipe their loyalty cards of their customers through 'readers' as they enter the shop and a printed

ot so long ago, the list of money-off vouchers, plastic in your wallet was usually associated with getting money in and out of your bank. Today, it is more likely to be labelled "Reward", "Spend & Save" or "ClubCard" as . retailers jump on the loyalty bandwagon and rush to price" for casual shoppers

issue yet more cards. In theory, these are designed to help retailers get closer to their customers and produce a shopper database for direct marketing matching the offer to the individual But database maintenanca is expensive and, in practice, most retailers avoid making mailshots too personal. The fear of committing some highly publicised blunder by misinterpreting an individual's history of purchases or using out-of-date information is a mum 20 per cent for those potent deterrent. As a result, all card-carrying customers tend to be given the same rewards and promotional mailshots.

With schemes often offering an effective 1 per cent discount to all, thosa rewards soon mount up. Tesco has issued nearly 10m cards of which around 60 per cent are deemed "active"... Databasa management is. outsourced and there has been little attempt, so far, to limit the benefits to "non-active" shoppers or even to contact them and discover why they so rarely visit the

Sainsbury and Safeway both have around 4.5m card bolders. Safeway is addressing the marketing issue with a multimillion-pound invest-ment in IBM's System 390 platform with DB/2 database

the needs of different customers," says Mr Steven Taylor, Safeway's controller of relationship marketing, "and do finely targeted, specific promotions that will be more relevant to shoppers. Equally, we must not abuse the information wa can obtain from basket analysis and jump to conclusions about lifestyles and purchases - it is going to need sensitive handling."

he new database is initially under IT control with a database manager and a team of specialists who will analyse and format the information for various departments. But eventually lina managers may have more direct access to the raw data as application tools improve.

"As well as using the database for communications with customers we want to use it to improve space allocation and product placement to better understand what gets bought and in what combinations," says Mr

Use of loyalty cards is more widespread in the US than in Europe. US retailers have realised that shoppers need to be rewarded differentiywith the high spenders encouraged to buy even more. US experience suggests that the top-spending 30 per cent can contribute 75 per cent to sales volumes while the bottom 20 per cent will account for less than 15 per cent of the profits as they cherry-pick the product assortment for special cutprice offers.

You need to have a different price and benefits package for different customers," says Mr Brian Woolf, presideni of Retail Strategy Inc. "and this should be based on an estimate of their economic worth to the organisation. Loyalty' is a misnomer - it is really about economics and there is a real need to de-average customers and

focus on economic value." For Mr Woolf, "customer specific marketing" is the key, with technology seen as an enabler to identify the most profitable customers and calculate the "direct customes profitability". Systems can be used to identify how frequently customers shop in the store and monitor how recently they have

will have tiered loyalty pro-

Multimedia sites allow customers to stay out of

and in control n spite of its global scale and vast resources, the motor industry still finds it less than easy to capture tha public's attention. A prime time TV advert for a new saloon car costs around based on their previous \$4m to produce and broadcast, but achieves no more than getting potential cus-

the showroom

tomers into the showroom. The traditional barometer of showroom success is the ratio of test drives to sales, so anyone agreeing to a test merchandise with a "shelf drive is heading towards a purchase. In the UK, the normal ratio of test runs to sales is three to two, meaning that 66 per cent of people who agree to take a car for a drive go on to sign up for a

new vehicla. In 1991, UK car dealer Camden Motors took part in an experiment aimed at testing naw approaches to selling cars. Under the auspices of Esprit, the European Union's high technology initiative, Camden Motors tried to address potential custom-

administrative sites of Camden's parent company, Barclays Bank.

According to John Bacon, development director at Car-Shop, tha company that emerged from tha experiment, the setting was crucial. Because the customer had to feel in control and that the procedure was convenient, it was necessary to allow access to information from outside the showroom.

At the kiosk, the customer sees a 17in touch screen connected to an Olivetti PC. The screen displays a steering wheel and dashboard that, when pressed, unveil a video clip using a wall-known British actor. He provides a familiar figure who explains the purpose of CarShop. Information about the range of cars available can then be accessed and a simulated test drive is offered.

Data which changes infrequently is on CD-Rom, allowing CarShop to replace them when big product items are changed. The more volatile information, such as car prices lists that may change frequently, is held on hard disk. At first sight, it would

video kiosks, set up at order, with tha easily replaceable CD-Rom holding information which changes. But with each terminal linked to CarShop via an ISDN phone line suitable for data transmission, those volatile facts can be altered remotely rather than deliver-

ing quotations on the value

of the customer's existing

The car retail sector was already familiar with a computer system called Motor Trader that contains this data and Bacon believes the familiarity created by Motor Trader prepared the ground for CarShop - "what we did was to put a window on this that customers could use".

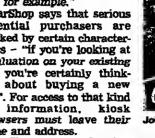
The transaction is two-way. The Unix processor polls the terminals overnight and interrogates the kiosk activity through a specialised database. Of the programme - an off-the-shelf purchase from software house Standard IQ - Bacon says: "This allows us to measure when a customer goes into various sections of the application and how long be stays there. We can then sep-

ers through the medium of seem sensible to reverse this arate the functions, finding how long people spend looking at finance packages as opposed to used-car values, for example."

CarShop says that serious potential purchasers are marked by certain characteristics - "if you're looking at a valuation on your existing car, you're certainly thinking about buying a new one". For access to that kind of information, kiosk browsers must leave their name and address.

CarShop, acknowledging that most customers will not have touch-typing skills and will be using ona finger, cut out another barrier to user acceptance by developing an onscreen keyboard with an alphabetic order of letters instead of the traditional 'qwerty" arrangement.

A postcode with a name and house number are all a user needs to leave, allowing the Post Office address file to determine the remainder of a domestic address. "I'm a retailer not a technologist, Bacon, citing tha provision of a live, online link for kiosk users, savs, "All of these technical decisions were drivan by retail arguments. My view was that it installed as CarShop moves



was not a commercial proposition because the purchase tence with a staff of 55. Since of a car takes six to 12 weeks, Whether you get hold of a quote in one day or two days is immaterial." Each kiosk costs £6,000-

£8,000, and CarShop, which had to match the grant pound for pound, recsived £330,000 of EU funding for what appears to be a very successful project. Bacon claims the kiosk trials boosted the test drive-to-sale ratio from 66 per cent to between 83 per cent and 94 per cent and, in its final review of CarShop, the Esprit directorate rated it a world-class solution.

More kiosks are being



its commercial launch in March, CarShop says 65,000 people have used the system. Camden Motors is not the only UK car retailer to take

a critical look at the traditional salesroom, Korean carmaker Daewoo made a dramatic entrance into the UK market in April 1995, dispensing with commissions for sales staff and offering the customer a sales environment free from the perceived annoyance of eager

Multimedia touchscreen kiosks were installed in every outlet, with Daewoo's advertising leaning beavily Continued on page 9



schemes use magnetic Astripe cards, a few are moving to smart cards as the need to identify and differentiate customers grows. One of the UK's most imaginative schemes has been developed by Chelmsford Star Co-operative Society. In just over a year, the society has signed up 15,000

spending patterns, is pro-

- Others, such as Foodtown

and Morgans in the US, have

formed "special shoppar"

clubs and display split-price

and a "member's price" for

Differential rewards can

he triggered hy coding on

the customer's loyalty card

or simply as part of tha

point-of-sale processing soft-

ware. US supermarket chain,

Food Lion, for example,

prices all promotional items

in a three-tiered system with

one level of discount if cus-

tomers spend less than \$20

on the shopping trip, a

higher rate for those spend-

ing \$20 to \$50 and the maxi-

spending \$50 or more. The

calculations are made at the

check-out and discounts

deducted from the final bill.

lthough most loyalty

high-spending members.

duced

card-carrying members from its catchment population of 150,000. As well as being rewarded for purchases with a sliding scale of discounts based on the amount spent, customers can have loose change transferred to the card as "savines". These can then be spent electronically tools and parallel query in the store. An agreement capability to manage this with the Co-operative Bank expanding customer data allows these Starcards to be "We want to understand Full discount details are printed on receipts at the point-of-sale along with "if you'd been a member, you would have saved fx" messages for non-card holders.

The latest development is "500 Club" where card members deposit up to £500, interest-free, with the society for a minimum of three years. This entitles them to further discounts, such as 15. per cent on holiday hookings. Customers agreeing to keep £500 on the card "for life" are rewarded in the end with a £500 reduction on their funeral bills from the co-op's undertakers depart-

Within three months of its launch, 750 customers had joined the 500 Club, netting the society a useful £375,000 in capital investment. The Co-op is also starting to build a customer database of transaction records and known family history for these particularly loyal shoppers which will eventually be used to target this core

On this scale, it is a simple matter to keep the database up-to-date and to make promotions 'personal'.

Managing the millions of records that a scheme such as Chubcard generates is a different matter and - as Safeway appraciates demands significant IT investment. For retail IT suppliers, it is seen as a huge growth area and numerous applications are now appearing. As well as IBM's Electronic Relationship Marketing application selected by Safeway, there is Precision Retailing from ICL and Amdahl. Most of these developments start by analysing a shopper's purchases or "market basket", giving retailers insights into the customer's preferences and

In the US, however, Wal-Mart has developed detailed associations ,based on 'market basket analysis which has influenced product placement. It found, for example, that a significant number of shoppers buying cold cures also bought fresh orange juice, so it moved a juice display to the pharmacy section with a result-

ing increase in sales. Critics of "points-for-prizes" loyalty projects suggest that tools like these can make generic customer targeting just as effective at increasing sales as the current spate of card schemes. Those who urge identification of the most profitable shoppers believe it is just a

European case study: electronic data interchange . By Geoffrey Naim

Cure for logistics headache

A consortium of Italian companies finds new ways to cut through mountains of paperwork

ntiquated laws and fragmented industries have stifled the development of electronic data interchange in many European countries, but the success of an EDI project involving Italy's pharmaceutical industry shows the difficulties can be overcome.

Italy's pharmaceutical sector is a model of inefficiency. say observers. Italian chemists choose from more than 9,000 products supplied by dozens of pharmaceutical companies through 250 wholesalers - in contrast, the UK market, of eimilar size, is served by less than 40

An Italian fondnees for paperwork compounds the logistics headache, and replenishing the wholesalers' shelves each year generates more than 5m pieces of paper, including invoices, delivery notes and other documents required by Italian bureaucracy.

Rationalisation of the sector has been talked about for years but eix of Italy's largest pharmaceutical companies grew tired of waiting and in 1991 turned to EDI to provide a solution to their distribution problems. They sought to break one link in the paper-chain by replacing traditional paper orders with online ordering.

The Daine network uses the Edifact standard for exchanging documents and was set up by the Italian



Italian chemists order from a range of 9,000 pharmaceutical

tric Information Services, a market, will be hooked up.

division of US company General Electric, and is run on its national value-added data network.

Each wholesaler pays Llom to L30m for the software to translate orders into the Edifact standard. These are then transmitted over the GEIS network to the supplier, which is equipped with software to translate the electronic order into a format compatible with its internal order system.

The Dafne consortium now includes 20 pharmaceutical companies and, by the end of 1996. Carmine Barone, Dafne co-ordinator, predicts more than 90 wholesalers, representing half the wholesale

The consortium is now looking to use EDI to replace other documents in the supply chain and is talking to the four largest Italian banks about extending EDI to the payment cycle.

Dame was initially slow to build up momentum because of the unusual characteristics of Italy'e pharmaceutical industry. In the car industry, for example, EDI has developed more rapidly, because a single powerful customer, Fiat in Italy, simply forced EDI upon its suppliers. This is called the "hub-and-spoke" model and is designed primarily to benefit the com-

pany at the "hub", Most EDI projects use this

model. In the case of Dafne, in order forms while another the fragmented nature of the important benefit is the electronic delivery note. This is sent by the pharmaceutical company and shows which of the goods ordered will actually be delivered.

Before, a paper delivery note travelled with the goods and the wholesaler had to wait until the consignment arrived to know which goods needed re-ordering. The electronic delivery

note is a great advance for the wholesaler as he knows in real-time when he places the order which goods will not be delivered," says Carmine Barone. The consortium now wants to complete the ordering cycle and - hy the and of this year - it hopes to use the network to send electronic invoices. This has been a big stumbing block to EDI's development in many European countries, where the tax anthorities have traditionally resisted moves to transmit bills electronically and insisted that original paper

pharmaceutical company invoices be sent. Carmine Barone hopes the Italian finance ministry will whose job is to take tradisoon allow invoices to be stored on optical disks, so banishing paper completely. But the ministry worries about the reliability and By reducing and ultisecurity of data stored this mately abandoning paper

In addition, the Italian legal system has been particularly slow to adapt to the information age and the legal validity of an electronic invoice is still imclear, Next year, the Daine consortium hopes to use the network to gather real-time sales data from the wholesalers, thus allowing the drug companies to know - for example -

Parmalat in Italy • By Geoffrey Natro

Machines now 'read' a million forms a year

An advanced handwriting recognition system can process up to 20,000 competition entries a day

n the fight to build customer-loyalty, retailers and food manufacturers use a colourful variety of voucher schemes and coupons. But such schemes can backfire if the redemption systems. cannot efficiently handle the resulting avalanche of conpons - so IT now plays an important role in automating what were once heavily labour-intensive tasks.

Parmalat, a Italian leading food and dairy products company, has traditionally made heavy use of promotions that require consumers to collect points from product cartons and stick them to "bingo cards". Once completed. customers write their personal details and choice of prize on the cards and mail them to a handling

Armies of temporary workers have traditionally been employed by the centres to process these cards, checking that the correct number of points are attached and then entering the customer details on terminals connected to a customer database running on a bost system.

A million forms have to be handled in a typical year and the problems of managing the peaks and troughs in workload, and the consequent delays in delivering prizes, caused Parmalat to seek a less labour-intensive solution for its 1995 promotional campaign.

The company turned to Elsag Bailey, an Italian company specialised in document processing technology, to develop a high-performance optical scanning and filing system for the bingo cards. In full swing, at least 15,000 cards are processed each day, so Elsag Bailey had to design a system that had could handle the throughout and still read the handwritten characters on the cards with a high degree of

Handwriting recognition is a difficult task for a computer, as makers of personal digital assistants know only too well. Elsag Bailey designed a client/ server system based on a high-speed scanner and an IBM RS/6000 Risc-based

server running Elsag Bailey's own handwriting recognition program, called SlamNet. Once the images of the

cards have been processed by the software they are stored on an optical disk. The cards themselves are then destroyed, but Italian law requires that the optical images be permanently archived in case of any dispute.

The bingo cards were designed to maximise the readability of the 100 or so alphanumeric characters that each customer writes and the software uses the processing power of the server and some sophisticated algorithms to rapidly identify handwritten characters with an accuracy of 93 per

With numeric data, such as Italian postcodes, accuracy of 96 per cent has been achieved," says Dominico Mazzarella, a marketing manager at Elsag Bailey.

The main problem is caused by people writing outside the boxes designed

> New techology has replaced armies of temporary workers

to hold each character." The software attempts to guess any poorly written characters and the image of the misread card is sent to one of the PC workstations connected to the server via an Ethernet network. Human operators then decide whether to accept the computer's guess or correct it.

The number of cards that need this intervention is greatly reduced and Parmalat found the new system allowed it to use just a third of the workers previously employed to manually read and enter the same number of cards.

To further improve the accuracy of the system, the raw data obtained from each card are sent to an AS/ 400 host system running a program that checks that the sequence of characters read off the cards correspond to valid names. addresses and postcodes. Any dubious data is then

checked manually. The system Elsag Bailey supplied to Parmalat can cope with 20,000 documents a day and the Italian company can build systems with greater or lesser

performance by using a different scanner and .

Other customers include food producers and mail order companies in Italy, France and Germany. The systems cost from L200m to L700m depending on size, and Elsag Bailey emphasises their efficiency and accuracy over temporary staff, whose commitment and performance may vary.

"Using students for data-entry may often work out cheaper, but if you want quality you need an automated system," says Dominico Mazzarella.

The US is the original 'home' of the shopping coupon and its customers love them because they win an instant discount at the supermarket checkout. Retailers, however, are less keen as they may wait two months to get reimbursed by product manufacturers.

IBM is working with two coupon redemption companies in the US to build an electronic redemption system that reduces the payment delays and gives manufacturers and retailers more timely access to coupon reporting information, so improving the effectiveness of their promotions. From January next year, coupons in the US will carry barcodes, allowing them to be scanned at the checkout as easily as grocery items. IBM has developed new software for its IBM 4890 point-of-sale terminals that takes the scanned coupon data and creates an electronic file. This is sent to head office consolidated with other coupon data and then transmitted to one of the coupon redemption. companies. These act as clearing

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houses, requesting funds from the manufacturers and sending payments to the retailers. By comparing scanned product and coupon codes, the electronic system ensures coupons are only accepted for valid products - with the manual system, there is no easy way to check that the product listed on the

For retailers, electronic redemption means they no longer need to collect paper coupons and payment can arrive in just seven days. The system should be

running before the end of 1996, and the three partners want to extend the scheme to include other clearing houses and retailers using POS terminals from other

■ The wireless store • By George Black Taking to the airwaves

The majority of leading US retailers are installing in-store

radio networks checkouts and flexible IT systems that would end the nightmare of store cabling. Naw agreements on standards now look set to

turn the dream into reality. When Marks & Spencer installed its first electronic point-of-sale system back in 1988, its proud boast was of wireless connectivity. Batteries and back-up tape cassettes were all the technology of the day could provide and the portable experiment proved short-lived.

Today, the wireless store is almost a reality with radio (RF) links used to connect a growing assortment of portable peripherals which can allow store staff to check on stock levels, record sales, or place customer orders without the need to disappear into back offices and store rooms - we say almost a reality because while systems capable of this sort of communication have been around - notably in the US - for a few years, they have tended to be highly proprietary and operate at a variety of radio frequencies making lack of inter-operability a big deterrent.

In the US, the Federal Communication Commission authorised the 902-928 MHz 'spread spectrum" band as standard, several years ago, and a range of imaginative in-store radio systems have followed. ("Spread spectrum" is ideal for retail applications as it allows for high levels of data transmission and can support hundreds of terminals in e single

Now, prospective brides now wander through US stores with RF "hand-helds" beaming their wedding list preferences to a central registry; while "accompanied shopping", with eales staff checkout in hand, is becoming commonplace.

More significant for managemant has been the use of portable pen-computers which allow staff to interrogate back-offica systems from remote etore aisles. The DIY chain, Home Depot, has used portable Epos kit to seli seasonal merchandise such as Christmas trees from promotional areas outside the sequence. stores while Wal*Mart often described as "the released its 802.11 compliant world's largest retailer" - is Spectrum 24 WLAN, eleanothar enthusiastic exponent. It has equipped manag- incorporated into Wavel.AN,

pads to interrogate central systems for stock and special order information from where customers make their enquiries.

Similar portables are used for all basic management dreamed of portable and supervisors can spend more time on the shop floor with customers. As Randy Mott. Wal Mart's chief information officer pnts it: There is now almost nothing our managers have to do in the back room".

Already around two-thirds of the top 20 per cent of US retailers in any product sec-tor are installing RF networks and forecasters predict that this figure will reach 100 per cent within

"The UK is lagging around two years behind the US in its use of wireless technologv." euggeets Rich Bravman, senior vice presidept and general manager of mobile and wireless systems at Symbol Technologiee, "but you can expect similar expansion before the end of the decade."

Bringing the wireless reality closer in Europe has been adoption by ETSI (European Telecommunications Standards Institute) of the 2.4-2.4835 GHz band as a spread epectrum standard so that ali European in-store RF systems can at least communicate in the same wave band and in July 1996 - after three years of debate - the IEEE 802.11 standard covering interface connections over the airwaves at 2.4 GHz began to be ratified, with the full standard expected by December. It will soon be possible for European users to mix-and-match components from different suppliers to form a wireless local area network (WLAN) that could eventually include both voice and data trans-

"You can now think of RF as a wireless Ethernet," says Mr Bravman, "and it is going to be a very big boom area. We can also expect multiple vendor solutions roaming the aisles with and retailers will be able to high-spenders, portable redesign their stores without the need for cabling."

Well, almost. There are still two different sorts of spread spactrum: direct sequence and frequency hopping which are incompatible. Most systems tend to be of the frequency-hopping variety where development costs are lower while both AT&T's WaveLAN and Telxon's wireless options are direct

Symbol has aiready ments of the standard are ers with Telxon 1134 RF pen- and IBM is expected to

launch a similar product Tron. "This new generation ble and they part to really later this year. Its own proto- of RF systems allows them resp the beneat." type RF penpad - the Sure-Point - was unveiled at the Retail Solutions exhibition in Birmingham in May.

etailers have long functions so that managers range of suitable applications are stand to have to back-of-"We'd expected a limited tions for the unit," says marketing manager David Tron. "but we've been very surprised at the numbers of retailers wanting to use RF to access decision-making applications from anywhere

within the enterprise." Those applications range the goods-inward end of operations through to shop

floor uses. "The best prompt for any retail manager is what he or she can see on the shelves in terms of merchandise stocks to instantly check on the situation by interrogating central files as soon as the see a

nharmaceutical industry

required a more complex many-to-many" architec-

ture that allows each whole-

saler to communicate with

many suppliers and vice

versa. Also, the largest phar-

maceutical company has just

5 per cent market share, so

no single supplier could uni-

laterally adopt EDI and

To achieve critical mass,

the six founder companies

had to convince wholesalers

and other drug companies of

tha mutual benefits of join-

ing. Carlo Ciuccullo, head of

marketing at GEIS, says:

Dafne has very different

characteristics because it

was set up by e consortium

and designed with two objec-

tives in mind: eliminating

paper and improving the

drug companies' relation-ships with their clients."

system, a wholesaler typi-

cally has to generate 400 to

500 orders each week. Each

has two or three people

tional orders received by

phone, fax or mail and then

enter them into the compa-

ny'e order-processing sys-

orders. Dafne allowe the

pharmaceutical companies

to get their orders a lot fas-

ter and eliminates the need

for order entry staff -

though Italy's etiff lahour

laws mean that surplus staff

One of the companies,

Ciha-Geigy, estimates the

move to EDI ordsring has

saved 30 per cent on its

paperwork costs. The whole-

are usually redeployed.

Using the traditional paper

expect the others to follow.

The trend is common rently trialling the Sure- fice systems for stock infor-Point with retaliers in the mation Others German chain to follow shortly.

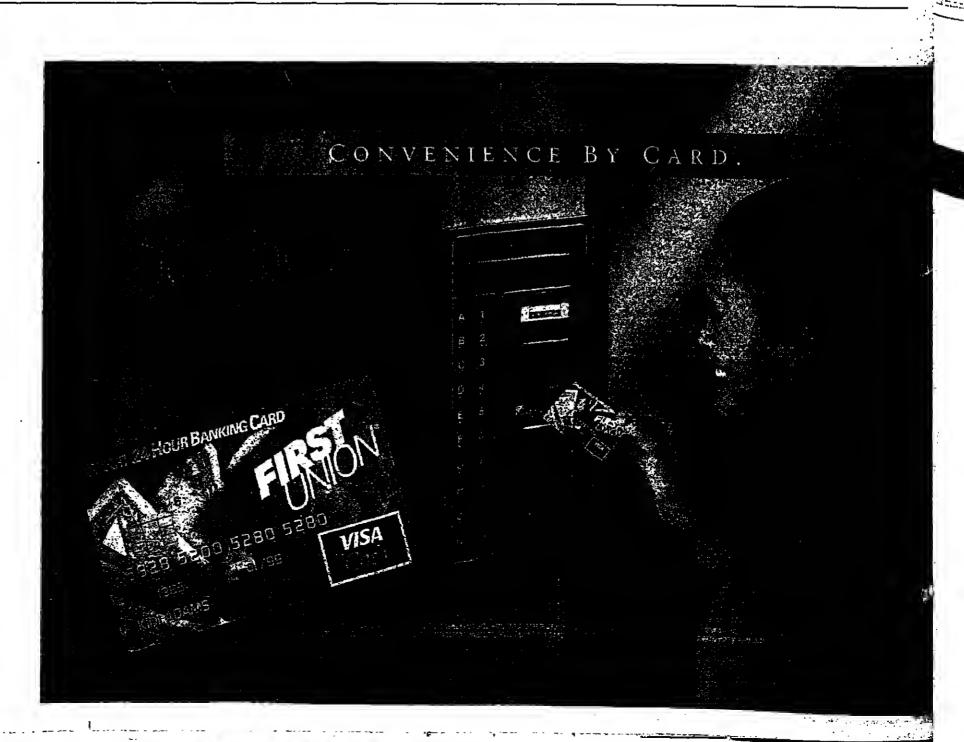
Steven Jordan, managing director of ASK Communications, UK distributor for from stock-handling data at a boom: "We're expecting tremendous growth over the next comple of years.

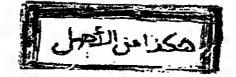
We find that retailers are putting in the system primarily to get flexibility of checkout location and then they begin to realise what - or lack of them," says Mr other applications are possinae developments.

WaveLAN is widely used in the US while UK users include Littlewoods Stores which uses it immost ontlets

for checkout communicaers include UK, Italy, and Spain with a Allders and Decenhams and many argue that wireless eystems are ideally suited to department stores where the need for flexible layouts and seasonal demands can act as WaveLAN is also predicting an initial cost justifiable application. ;

Agreement on standards and mix-and-match peripherals are just the start: already companies such as ASK are looking at extending the epread spectrum range to 5 km, thanks to new antan-





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Applications of the Asset of th

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er retailing

Self-scanning puts customer Menen water and honesty to the ultimate test -Other Company but the stores have built-in Same and Gransal safeguards Control of the contro inition de upermarkets have long wanted to cut check-out queues. Now some AND DESCRIPTION OF THE PARTY OF 10 ac Parabonette A. S. S.

are giving customers a chance to avoid them entirely thanks to self-scanning, a system that turns the shopper into a check-out It works simply enough;

customers get a hand-held gadget - about the size of a mobile phone - when they enter the store and scan in the bar codes of their purchases as they tour the

They get a running total of their spending and a simplified payment procedure when they pass through a special check-out. It means customers do not have to unload and repack their shopping at the till.

So far, only a few retailers have embraced the concept. They include Safeway in the UK, Finast Supermarkets in Ohio in the US, and Holland's Albert Heijn, part of tha Ahold group. Other supermarkets are watching the development closely, and soma are planning trials

Customers who use selfabout it. They say it cuts out queues, puts them in control of spending, and is even a useful way to entertain the kids. Detractors say it is gimmicky gadgetry, does not

save that much time - by the time you have processed all the items yourself - and gives you a job the supermarket itself should be doing.

So are the self-scan practitioners stealing a march on rivals or burdening themselves with unnecessary installation costs and uncertain benefits?

Safeway has no doubt about the benefits, saying its Shop & Go system is a valuable way to improve customer service. Around 100 Safeway stores already have self-scanners and it plans to extend the system to all its larger stores - some 150 to 160 of the group's 370 out-

"I believe wa are the world leader in the application of self-scanning technology," says Colin Smith, chief executive of Safeway. Meanwhile, Albert Heijn, Europe's largest grocery chain, has installed self-scanning in 30 of its 650 stores.

n some ways, it is surprising more supermar-kets have not adopted it. That partly reflects their caution in the face of a new concept, and partly the fact that it is only recently that the technology has become less cumbersome. But expense is also a consideration: Albert Heijn calculates thet it costs around DFis100,000 to equip a store

with up to 100 self-scanners. The justification for such scanning are enthusiastic an outlay is not just that it improves customer service, it might even persuade shoppers to spend more. Instead of cautiously having to round up their purchases to ensure they do not over- many checks would irritate ers."

late costs exactly, so they might bny extra items if they have cash to spare.

Despite the claimed advantages, it is clear that there are a lot of technophobes out there. Safeway calculates that fawer than one-in-five customers uses self-scanning at its Camden store in North London - although it accounts for a higher amount of overall customer

Heijn says 35 per cent of its customers use them -"scanners are most popular at week-ends, when shops are husier and people are buying more," says Mr Erik Muller, a spokesman for the Dutch group. Observers say the scheme

can provide an added point of difference for supermarkets, at a time of fierce competition for loyalty, and might even reduce lahour costs. "The nestest thing about self-scanning it is that it cuts down on product-handling. You don't have to move things in and out of your trolley all the time. But there is a resistance in the consumer. A lot of shoppers don't trust these machines," says Mr Michael Poyner, retail director of the COBA

consultancy group. Scanning does, of course, put customer honesty to the ultimate test. But the stores have built-in safeguards. You have to be a user of Safeway's ABC loyalty card to use a scanner, so that automatically means it has your name and address. And be struck here because too keep the loyalty of custom-

spend, customers can calcu- customers. Mr Henri Heoriques, store manager at New in-store Safeway's Camden store, video systems admits the system has been abused in a very small number of cases - leading to prosecution in one case but he insists that stock losses have not gone up

> overall. Where does self-scanning go from here? Safeway is aiready planning to introfor aelf-scanners, meaning man. shoppers will be able to pay automatically with a credit card without seeing a

More generally, there is also talk about "entire basket" scanning, although that would be expensive because it involves a micro-chip rather than a har-code oo products.

Symbol Technologies, the LIK group which claims to be the world-leader in bar-code driven data transactions. says self-scanners can help supermarkets target their promotions more accurately and provide higher levels of personalised service. It could allow customers to scan bar codes in catalogues, for example, and bring the technology into the home.

Mr Gordon Ambidge, group vice-president, says: We expect to see portable personal shopping (PPS) taking off in do-it-yourself, casb-and-carry stores and non-food retailing. For busy people and those who really need to budget carefully, PPS is a useful budget tool. thare are random checks For the retailer, it is the first even for the regular user. in a series of products which There is a delicate balance to will help them to gain and

Customers are cautious Pictures sell products

complement the salesman's skills

Tideo is being increasingly used to display and demonstrate products and assist ln making sales. It could even be, in some future retailing sceduce unattended payment nario, the 'death' of a sales-

The idea is not new. In the early 1980s, stores such as Woolworth began using interasted in installing video to promote items such systems which use video to as mechanical toys which could not otherwise be demonstrated without taking them out of their packaging. This was frequently a way

of re-using video advertising material shown on television and thus reinforcing Its impact. The technique was sooo successful.

Video has started to be used far more widely, particularly in the US and more receotly in Europe. Do-it-yourself stores, for example, now use it to demonstrate processes such as laying a path and may also sell the video of the demonstration to the customer instead of - or as well as - a manual.

Overhead video programmes, using systems developed by the UK company Alphameric, are broadcast at banks, airports and petrol stations to sell to people in their unoccupied moments. Some stores also use video to demonstrate out-of-stock products which can be quickly ordered, thus gaining a sale which might

otherwise have been lost.

sell video programmes - tri- insurance cover for the purals are being conducted by stores such retailers as W.H. Smith. Virgin and Tower. using systems which enable customers to select a video on a terminal and watch an extract to decide if they want to huv it.

■ Video systems • By George Black

In some large US stores there are now video clips being shown on overhead screens for customers to view while waiting at the

Wine and drink stores are describe thair wares and help customers to make their choice. Instead of a dedicated video terminal, video can now be combined with a point-of-sale terminal

- which is essentially a personal computer - by using larger screens, perhaps as big as 10 ins across, and adding the necessary software.

A US chain store selling children's educational toys has installed a system which enables Pos terminals to show TV advertisements when not in use for sales transactions. This system was designed by the US software company Post Software International, recently acquired by ICL, the computer company.

The approach may also allow video to be combined with data and sound into a multimedia system which may be used by the customer as an Interactive device. These facilities not only explain the product but direct the user about where to find it in the store. together with alternatives chase. To achieve this may require all the latest IT capabilitiaa - powerful server bardware, object software, video conferencing aystems - to put it together. Systems are likely to be based on Microsoft's newest operating system, Windows NT; Microsoft is backing the concept,

retail sector. Video will usually only be installed on the point-of-sale (Pos) terminal in places where there are no oueues and there is time for a demonstration. The application is most likely to be in outlets where expensive items are sold or where careful consideration by the prospective buyer is needed.

which may help

strengthen its position in the

n the UK one of the pioneers is the Burton group, which is soon to pilot a fashion show application at its clothing stores, using hardware from Siemens-Nixdorf Information Systems and software from the US company, Unlimited Solutions.

Mr Alan Fynn, marketing director for USI in the UK, says there is great potential for systems of this type, partly because object software written in languages such as C++ makes it easier to integrate video into appli-

Multimedia point-of-sale systems can become their own points of sale, outside the sbowroom, either as a terminal or built into a kiosk. These are expected to spread at sites such as railway stations, airports and Video may soon be used to ways of paying for goods and other places where people

may have time to spare for

Mr Don Jackson, a senior management consultant for ICL Retail Systems, says that current experiments with video point the way

ahead for a lot of retailers. "Market research shows that many people disliks shops and ahowrooms because they fear being grabhed hy a sales persoo and given the 'hard sell'," he

"Video at the point-of-sale enables them to serve themaelves without feeling that pressure. Also, reaearch shows that people are ofteo more inclined to trust the information they get from a computer system than verbal details given by a sales person."

However, Mr Jacksoo doubts if video will ever be the 'death' of the salesman -"tbese systems will often complement the salesman's he predicts. "Although video systems can be free-standing, they will often be used as part of a dialogue between the customer and the salesman."

He expects systems to mova rapidly out of the trial phase into widespread implementation in the next few years. The chief drawback is the high cost of several of the elements of the systems: one of these is video production, notes Mr Justin Flute, creative services director for software house Julia Schofield Consultants.

"Retailers will not want to spend a lot of money on a video to promote a product which they may only be selling for a few months," be

Multimedia . kiosks

Continued from page 7:

on the fact that prospective customers could enter a showroom and browse through the kiosk without coming under unwelcome pressure. Each klosk is built around a Pentium processor and networked to Daewoo's head office over private, eased circuits that permit the company to install changes overnight.

An external company, Julia Schofield Consultants, wrote Daewoo's multimedia software while UK-based IT firm, ICL, provided the PC

Variations

Andrew Thompson, information systems director at Daewoo Cars in tha UK, who has looked at the CarShop product, says: "Their approach is slightly different from ours - we put the terminal in at the retail outlet." But the philosophy of exploiting multimedia kiosks

customer-activated multimedia application uses ICL's 'Interactive Shooper' system is the same. Both companies deliberately take a step back from the customer and allow technology to occupy tha space vacated by human

"We don't speak about salesmen," says Thompson.
"We call them 'customer advisers' and our process allows the customer to make his own decisions and

ales staff.

In

want without any feeling of being pressurised."

Intelligent tagging • By George Black

How chips with antennae will benefit the supply chain

Electronic labels could replace barcodes in some areas of the retail business within a few years

lthough barcodes are extremely cheap to apply to all sorts of items and in most cases have no big disadvantage, they are limited in functionality and unsuitable where code and reader cannot be easily brought together.

However, intelligent tagging systems - otherwise known as radio frequency identification or electronic labels, are essentially chips with antennae - which offer a flexible and powerful wsy of keeping track of goods

What you never thought possible.™

by the user; they do not need to ten years, which would a battery, but are activated make them affordable for hidden. They enable many items per second to be collectively scanned, identified and counted at a distance of a metre and sometimes up to several metres, items do not need to be separated and scanned individually.

The main drawback is the high price of the chips. Tags are available in various grades of sophistication, but the cheapest still cost 50 pence to £1 each, so it makes no commercial sense to attach them to items of low value. But as Mr Rusi Kathoke, finance director of the technology transfer com-pany British Technology Group points out, the price

Several leading FT suppliers have been developing tag systems, which could soon to become a large and lucrative market. The Centre for Exploitation of Science and Technology (CEST) in London, an independent thinktank, has been studying the potential. Its business analyst Mr Jeremy Holland says that whereas barcodes have mainly benefited retailers, intelligent tagging will eventually benefit the whole supply chain.

"It will happen eventually it's a technology that is needed," be says. The Article Numbering Association, which sets standards for barcoding, is waiting in the wings. Its external relations manager Mr Graham Avory sees tagging as the next step, but believes it has a long way to go to gain critical

"A lot of development bas to be dons yet before it takes off," he says. There will be resistance from users because of the cost, but adds that "the ANA is watching the situation closely and will be ready to set data standards for tagging when the moment is right".

He is confident that compatibility between intelligent tagging and barcodes can be maintained. The technology is evolving rapidly. Until recently the systems were read-only, but oow read/ write systems are starting to be employed. This will make the tags more easily re-usable and greatly increase the range of applications.

However, there is a need for firm technical standards an international level before many of prospective users will feel it safe to invest. Intelligent tagging has been in use since the early 1990s, but so far has been mainly confined to military or security applications, where the high cost is not a significant negative factor.

hese systems are used in car security and to secure sites, such as oil rigs, as well as for transport of livestock. The same principles could be used to protect expensive electronic products in the bome. However, electronic tags have not yet penetrated far into the retailing world - "they can do a lot of things, but not at a price that many people are prepared to pay," says Mr David Hyslop, sales manager for Tiris (Texas Instruments Registration and Identification Systems). The use of on shop goods is

Electronic tags can be pro- of tags could drop to a few cannot predict when the grammed with a code chosen pence or less in the next five price will fall far enough to

make it possible. Such tags are are unlikely by a radio beam from the many more business pur- to be applied to supermarket produce for at least years, suggests Dr Ed Turner, bead of the retail technology group at ICL, the computer company. But he believes that tags will eventually be applied in stores. as part of the self-scanning systems which some supermarkets are now introducing see report, this page.

Various IT companies are planning pilot projects with potential customers in retailing. The first commercial products may emerge oext ear - early applications within retail will be in distribution and warebousing. Tags have already started to be attached to pallets, containers and boxes. They are also used by some supermarkets for tracking trolley movements, both to prevent shoplifting and to manage checkouts more efficiently.

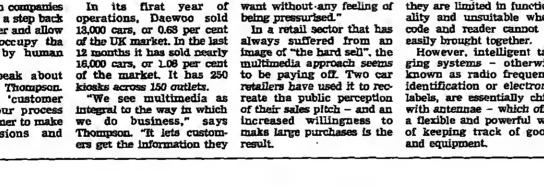
Eventually, they will find far wider range of uses in other industries, including baggage-handliog at airports, parcel deliveries, road tolls and self-servics libraries.

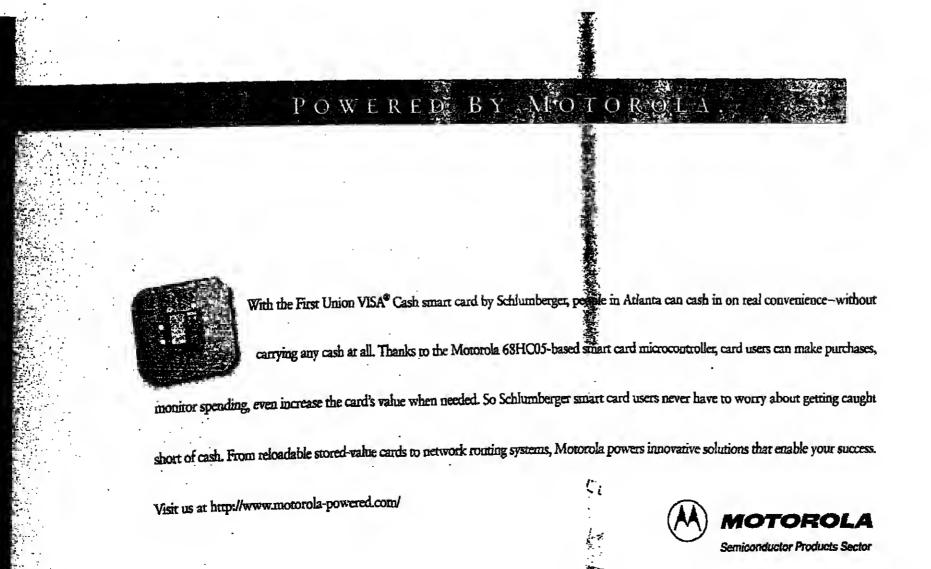
They will bring big advantages to the travel and entertainment businesses, helping to move groups of people through entrance and exit points more quickly without individual ticket-scanning. Tags could be permanently attached to objects to hold data about their history; for example, tegs on electrical and electronic goods could record their date and place of sale and details of warranty, which could be useful when paperwork bas been

Embeddad in spinas of books, they could enable booksellers to do stock-taking in just a few minutes. They could also be used as anti-theft alarms, for instance for high-value clothing, being de-activated at the checkout after payment is made.

One example of sucb systems is called Supertag. which originated in a South African research laboratory. This has been acquired by the British Technology Group and is surrounded by patents. BTG has licensed Supertag to eight developers around the world.

A consortium of four Japanese companies, Seika, Oki, Miyake and Takaya, last year reached an agreement with BTG to produce systems based on the Supertag technology. Other licences have been bought by ICL, Gemplus, the French magnetic stripe and smart card manufacturer; and the UK systems integrator. "futuristic" be says, and Oxley Systems.



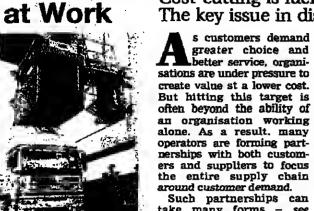


Software

Knowledge sharing . By Rod Newing

Software moves to meet supply chain needs

Cost-cutting is fuelling the move towards greater co-operation between supplier and consumer. The key issue in distribution is managing information – not just boxes



Advances in logistics distribution and supply. chain management

better service, organisations are under pressure to create value st a lower cost. But hitting this target is often beyond the ability of an organisation working alone. As a result, many operators are forming partnerships with both custom-

Such partnerships can take many forms - see reports on 'efficient consumer response' (ECR) and co-managed inventory, pages 4 to 6 -bot they all require systems flow of demand and supply information between enterprises. This means linking internal systems together as well as connecting to cussystems. According to Steve Ellesmere an executive consultant in the supply chain

er.pipex.com/ernsty): "The challenge for today, which a lot of software houses are meeting, is to define a continuous process from customer demand through to supplier.

This allows you an integrated information flow through the planning systems which sit between strategy and operational systems.

However, each product sold contains one or more components from different suppliers. Receiving a customer's own sales forecast requires a manual input to convert it into a list of the components needed and calculate the timing of their demand.

"You need to know constraints, such as line speeds, change-over times, activity rates and productivity levels, if you are to integrate planning into husiness pro-

Young (http://www.woldserv- "It is then possible to inte- and procurement. However, operational, level."

> this conversion. Alterna- not yet meeting expecta-tively, existing internal tions." systems should he able to convert an internal sales forecast into a series of timephased material requirements which can be communicated hack to esch sup-However, recent findings by leading software exhibition organisers Softworld (http://www.softin-Bramald (http://www.tbconsult.co.uk) in association with the Institute of Logistics - suggest that software

still has a long way to go. Jyoti Bannerjee, managing director at Tate Bramald. says: "Respondents found that software is delivering the henefits in traditional areas, such as order process-

grate customers and suppli- the new important areas of ers at the planning, as well demand forecasting, distribution requirements plan- opposed to only a third who Special planning software ning, strategic planning and may be required to carry out supply chain simulation are

rganisations in a supply chain are increasingly using electronic data interchange to transmit dsta directly between their computers as part of a formalised system. We found that the most important technology initiatives are electronic data interchange and integrating islands of automation," adda Mr Banneriee

This is backed up hy a study by management con-(http://www.peint.com/pehome!), also with the Institute of Logistics, which shows that more than 50 per

s customers demand business advisers Ernst & cesses," says Mr Ellesmere. ing, inventory management implementing EDI, multinational systems and forecasting/planning/replenishment in the next three years, as already have them.

"Leading integrated packages] such as System Software Associates' BPCS (http://www.ssax.com) and SAP's R3 (http://www.sap ag.de) don't yet have the level of sophistication," says Jerry Brown, a manager at logistics consultancy Druid (http://www.druid.co.uk). However, they have the backbone to pass informa-tion very quickly, but you still need to bolt on best-ofhreed psckages, such as Demand Forecasting from American Software (http://

www.amsofware.com)." Businesses also need sultants P-E International access to each other's systems informally and interactively to place or track the progress of an order, check on suppliers' or customers' inventory levels,



Cenon copiers' UK distribution centre at Coalville: the Logol m from Mercia Software helped expand the service oper

get new product information or seek technical help.

This can be achieved in a number of ways. Lotus Notes allows businesses to make inter-company information sharing and workflow the foundation for a virtual organisation, offering speed and flexibility through the supply chain. Dial-in access to computer systems can be established and the next step will be to give partners access to internal information and systems through their own area in an internal corporate Intranet, using World Wide Web technology.

According to Paul Rogers. global industry consultant at Systems Software Assoclates: "The use of the Weh will help provide simple-touse access to BPCS for trading partners who are not familiar with our systems.

"A customer can interrogate the inventory system and then place an order through the sales order processing module using a just a simple Java applet."

A very good example of exploiting the Internet is General Electric's Trading Process Network (http:// mero.tpn.geis.com). In 1995, it

Businesses need access to each others' systems to track progress on orders

Electric family of companies where more than \$250mworth of goods and services was traded by a supplier community of 800 busi-

Any business can now visit this site to provide details of its products, services, facilities or production processes. It may then receive and respond to relevant invitations to tender without having to waste time in qualification meetings with General Electric. The system will soon he made available to other man-

An interesting use of Internet technology is being made hy new supply chain software vendor Red Pepper (http://www.pepper.com). It is using intelligent agents developed for Nasa to produce supply chain models which can optimise around certain constraints. These optimisations can be shared with trading partners over the Internet while discussing them by telephone.

Whatever technology is hosen, there is a need for enterprise-wide data and the

architecture. "Systems must be multilingual and support a wide variety of multi-currency and multi-business entity needs," says Tate Bramald's Mr Bannerjee, "These include international transportation, replenishment planning, import/export complexities and cross-border transfers within an State State of the State of the

emonic

Jan Szymankiewitz, managing director at PE's logistics consulting service, says: "TT is the key enabling fac-tor as organisations restructure their European husi-

"However. US companies are better at managing on a pan-European basis than European companies. because of their experience of the large North American market. In contrast, Far Eastern companies are taking a more country-centric view of their systems."

But there are problems finding suitable software. "There don't seem to be any real international logistics packages for client/server on the market," says David Turner, CODA Marketing communications manager. We have tried without success to partner a specialist supplier to complement our international financial pack-

"The problem is logistics packages are so huge that re-writing so much code from scratch - as we did with CODA-Financials - is a formidable task. Many suppliers just port old systems scraper on them, which covers the cracks, but isn't a satisfactory technical solution for the long term."

Systems Software Associates' Mr Rogers adds: "The use of distributed object technology is transforming the ease of use of enterprise applications and the potential offered to companies to reconfigure their business processes to meet daily changes in requirements: This contrasts with the traditiooal cumbersome approach needed to reconfigure those systems operating on yesterday's technol-

Logistics and distribution is now more about managing information than hoxes. The supply chain has to be mirrored in the communica-tion system," Mr Rogers says. "The quality of data is now as important as product quality," adds Druid's Mr.

A separate survey on the logistics sector will be published in the Financial Times on Monday, October

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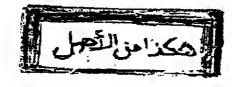
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tunt checks stocks at Somerfield's store at Spaiding, Linc where margins are tight - failure to display a product will not only lose a sale but may also lose the customer to a competitor

European (stalling application . By John Kavanagh

Electronic partnership with supermarket suppliers

Big name companies have linked-up in a pioneer project with Somerfield

nventory cuts of 25 per cent at the UK supermarket chain, Somerfield, have proved the potential of a new form of electronic partnership with suppliers but also provided some salutary lessons about commitment and organisation.

The company has completed what is believed to be the first significant trial of co-managed inventory in Europe. It involved 12 bigname manufacturers such as Bass, Cadbury, Chivers Hartley, Kraft Jacobs Suchard, Lever Brothers, Nestle and Reckitt & Colman.

In co-managed inventory. the customer organisation provides sales data and forecasts and the supplier uses the information to replenish stocks without needing formal orders. The supplier in effect becomes an extension of the customar's warehouse

and stock-control system. exchanged automatically by electronic data interchange (EDI). Sales data can be gathered periodically by a program at tha customer end, automatically put into a standard EDI message and sent to the supplier's computer, where it can be passed to accounting, warehouse

and stock control systems. Indeed, there could be no human involvement from the time a purchase is recorded at a check-out until the printing of a picking list at a supplier's warehouse.

All this is quita an achievement for Somerfield,

which only started electronic

trading two-and-a-half years ago. But chief executive David Simons made his mark soon after he joined by determining that the company should catch up with its competitors: he set a tar- pany, so tha system gener-

get of EDI for 80 per cent of ates an EDI acknowledgeorders for canned and packaged goods for its 609 stores within six months.

By dedicating a small team to the project and involving suppliers closely throughout, Somerfield beat this target in just three months, establishing electronic trading with 360 companies and reaching 600 within a year. It won an award from network services company GE Information Services for the fastest-ever roll-out of EDL

Benefits of the initial electronic trading project ranged from staff cuts of 10 per cent in ordering and inventory management, to reductions in the order-delivery cycle from five days to two.

The subsequent 12-month co-managed inventory project has been more of an experiment than an immediate imperative, although most of the 12 suppliers are continuing to trade in this way and some are now talking to other retailers "about starting trials.

Somerfield kept the technind stock-control system. cal side of the experiment lose the customer to a com-bata, acknowledgements simple, to get going quickly, petitor. keting were represented in the successful teams but did and delivary advice are by using the POS Intelligence software and service from EDI network specialist GE Information Services. This runs on GE's central computer and combines the. last two years' sales data, plus daily updates on movements of items from Somerfield's Ross-on-Wye distribution centre to its

> The system uses the data to provide rolling 39-week forecasts on individual products. Suppliers' advertising and other promotion activities are also taken into account. The ultimate in co-man-

aged inventory is for suppliers to set up deliveries based on the data and forecasts. However, Somerfield's internal procedures demand that orders have e reference number allocated by the com-

ment message from the supplier which goes hack to Somerfield, where an EDI order message containing a Somerfield reference number is produced and sent in the traditional way.

to eliminate this to-ing and fro-ing but did not want to bold up the experiment with e lot of system development. The results, measured simply on delivery performance,

Somerfield is now looking

range from impressive to indifferent, although Somerfield is satisfied overall. "Genuine hard and soft benefits have been achieved," says supply chain manager Mrs Jane Winters.

"More than half the suppliers reduced stock at our distribution centre by 11 to 25 per cent. Half improved service levels by 1.45 to 2.5 per cent.

The service-level improvements are seen as significant in a market where margins are tight and failure to have a product on a supermarket

ost suppliers were doing weekly deliveries, which cut the scope for stock reductions, says Mrs Winters. The potential for spectacular gains was also reduced by the fact that there are already "no major supply chain inefficiencies" in the

UK retail grocery husiness.

Reckitt & Colman was one of the most successful suppliers, increasing the number of orders delivered correctly and on time to more than 99 per cent. Mr Mike Trevor, head of logistics, says tha performance differences across tha participants were down to commitment and organisation. "We dedicated resources and trained our staff prop-

erly," he says. Training is important

GE Information Services is hecause order processing on +44 1932 776000.

becomes replenishment management: staff are no longer handling orders hut forecasts and delivery schedules. Some suppliers were enthusiastic about co-mansged inventory but saw it as just an add-on to customer

Mr Trevor sees great potential in the sales data: at high levels, focusing on total volumes for the year, and it's very difficult to see the precise mix of individual colours and carton sizes. Comanaged inventory gives us the data on this."

Jane Winters at Somerfield agrees that organisation is important: "The trial gave a better understanding of the total supply chain. It helped to focus on husiness

The most successful suppliers organised the trial as a logistics or supply chain development project, establishing a cross-function team with both forecasting and inventory control expertise. shelf can not only lose the under a strong project man-sale of the product but also ager. IT and sales and mar-

not play the dominant role." Mrs Winters says that top management commitment all round is important, and no big changes are needed to the terms and conditions of doing business.

the retailer and its suppliers already have a mature, intelligent and non-adversarial relationship, as there must be a high degree of trust."
Mike Trevor at Reckitt &

She adds: "It is vital that

Colman agrees: "We have a much close relationship with Somerfield now," he says. "We're not negotiating new discounts because of co-managed inventory: instead, we're working together, not so much as customer and supplier but rather as partners, with the consumer as our focal point."

Supply chain management . By George Black

Arguments far from over

Senior managers are looking for systems which they can interrogate at any time to keep an eye on business progress. The software choice is between integrated systems and best-of-breed packages

suites, combining distribution with manufacturing, accounting and other functions have become the business systems among large companies.

The rapid rise of software suppliers, such as SAP, selling such integrated solutions is evidence that the integrated approach is winning the battle against the best-ofbreed, point solutions or mix-and-match approach though the arguments are

far from over. The German developer SAP has become the fifth largest software house in the world on the strength of the integrated approach. System Software Associates (SSA) also attributes its success largely to that formula, as does J.D. Edwards, seventeanth and eighteenth respectively in the top bundred software companies compiled by Software Maga-

JBA, a rare example of international success for a UK supplier, has built up lts husiness on a suite of similar broad functionality.

Logistics software vendors with stand-alone products do not feature prominently in the top ranks of software companies, which suggests that their message is not winning favour, at least smong those companies which spend a lot of money on applications.

The main reason for this seems to be that users believe they cannot afford the high cost of the people who would be needed to carry out the integration of separate applications. The skills are hard to find and the work might take a con-

siderable time. Another reason may be that users are not convinced that buying best-of-breed packages and linking them together will deliver any purchase order management,

ntegrated application competitive advantage. Both arguments can he challenged Reports by analysts such as Forrester Research point to the high cost of generally accepted form of implementing integrated packages, particularly SAP's R/3. Some industry watchers say that bardly any complete R/3 system has so far

been installed. Mr Simon Bevan, European general manager for husiness applications at software bouse Computer Associates, says that integrated suites may have significant disadvantages for some users: "An integrated suite can give you so much software that it becomes very complicated to implement and costs you a lot extra on your computer hardware,"

Linking stand-alone packages which have heen designed for that purpose might not therefore work out much more expensive.

Viewpoints

On the question of competitive advantage, SAP's advertising asserts that its users show a better return on assets and profitability record. But rivals from the other camp could, no doubt, issue counter-claims. It may be that neither side is entitled to claim the credit for users' successes.

Mr Mark Simmons, a partner with the management consultancy Ernst & Young, warns that automation is wrongly regarded as a pana-

"Companies should re-engineer their processes first, then look for the best systems to support them, he says.

He is sceptical about the notion of all-inclusive applications. Integrated suites may not deliver all the functionality that users need, be adds - "many are weak on

for example. You cannot manage the operation to find out bow well you are purchasing'

in such cases, a bolt-on package might be better, in his view. This seems to be borne out to some extent hy the tendency of users of SAP's R/3 and other integrated suites to augment them with specialised distribution software products.

SAP and Manugistics have been working to join their products together, partly to strengthen the distribution planning capabilities of SAP's suite Mr Simon Ratcliffe, a senior supply chain manager for British Airways, says; "Single solutions rarely provide the breadth of functionality required."

He evaluated and rejected integrated suites and went for best-of-breed instand. picking Manugistics soft-

Whithread Beer Company also went for best-of-breed because it thought an integrated solution involved too high a risk and could involve lengthy taloring to its needs, according to the director of supply planning projects, Mr Kevin Kelly. For supplying its Thresher off-licences and other outlets, the company chose an E3 sys-

Nevertheless, there is little doubt that best-of-breed has heen for several years on the losing side of the argument. in the early 1980s it was a natural progression from the previous generation of bespoke applications developed by in-house departments (though much of this s still in use) or from unsa-

tlsfactory packaged soft-Many packages originated as development projects for a single client and were later

turned into products, including many of the idiosyncratic features provided for their first user The decision to buy best-

of-breed packages followed from this and was - to some extent - successful, but it depended on the existence of large inhousa computer

departments to weld applications together.

those in-house resources began to shrink rapidly, first because of the spread of outsourcing and then because of the arrival of another eco-

nomic recession. New software vendors soon began to exploit this market opportunity with products designed from the outset as packages. The success of SAP and others offer ing similar products can be attributed largely to their ability to provide comprehensive systems to users who had already abandoned the hest-of-hread approach

for lack of resources. Distribution software increasingly being called supply chain management systems, a term which reflects the interdependence of logistics, production and finance and perhaps predisposes buyers to integrated

Key decisions

Purchasing decisions are taken at top management level, often after months of deliberation, and regarded as crucial to the business. Many companies are looking not just for a software sup plier, but for a strategic part

Mr Mike Nutter, managing director for software house Movex UK (owned by the Swedish company intentia International), says that users view investment ln integrated solutions as s strategic decision to support their management systems across the whole company.

"ft is very hard to do business process re-engineering with three or four different packages, even if they are best-of-breed," he says.

Senior managers are

looking for systems which they can interrogate at any time to keep an eye on the Systems which are merely Interfaced, not integrated. may be updated in batch mode and therefore do not provide managers with instant and accurate information across the entire enterprise. But the case for best-of-breed is not dead yet; and the argument looks set By the end of the 1980s to continue.

Software Flyer.



The airline business is one of the most competitive on earth. So to ensure their continued success. KLM Royal Dutch Airlines brought Computer Associates onboard.

With CA, KLM can take advan-

tage of the world's most advanced client/server financial software: CA-Masterpiece /2000. As Executive Vice

President and Corporate Controller. Hans Bruggink says, "KLM is an international business with offices all over the globe. So we needed financial software that was multilanguage and multi-currency. In both cases, Masterpiece fit the bill." What's more, Bruggink appreci-

ares the fact that Masterpiece operates in "real-time," giving his staff immediate access to the information they need right from their PCs. Ferhaps best of all, Bruggink

says, CA and KLM worked together to customise Masterpiece 10 precisely fit their needs: "CA made sure they had all the input they

> needed to tailor Masterpiece to our specific requirements. And they continue to refine the software to keep up with the

new demands of our husiness." Sounds like a good partnership. "Flying sky high," says Bruggink. Spoken like a true airline executive.

> AOMPUTER ! SSOCIATES

1 1995 Computer As action sharman, makely, 44 1755 079, 79 Mill product name selecters of costs as the trademarks of the transport of computers.

Award for excellence in using information systems . Report by John Kavanagh

Insurer's radical new approach sell them a new policy: we add it to mostly written in the old Cobol

How Eagle Star Life redeveloped all its information systems to protect its future agle Star Life can now get new

insurance products from conception to market in a week, following a total redevelopment of computer systems and the establishment of close partnerships between IT and business people. Its achievement has been publicly ecognised when it won the British Computer Society's Award for Excellence in Information Systems

Management this year. The company bit the bullet in 1990 as it found that old systems - and old attitudes to customers - were hitting business.

"The market was changing, as people's expectations grew," says IT manager Mark Sheridan. "In the boom years, insurance companies more or less offered products with a take it or leave it' attitude. But customers were finding more choice, with growing competition between banks and building societies, portable pensions and unitised products, which they could chop and change, rather than separate, isolated insurance products."

Eagle Star Life saw that redevelopment of all its systems was the only way forward. At the time there were separate systems and files for each product. These ran on a central mainframe computer with limited online access through terminals. Most telephone inquiries were replied to by letter.

Today, the systems still run on a

central IBM mainframe and are still

programming language. But similarities end there. There is now just one central

database, using IBM's DB/2 software. which provides access to all policies and investment schemes held by a customer, through a single reference. Information about a customer is antered just once. "Previously, staff tended to handle

specific products, and there was a lot of paper-passing between sections," Mr Sheridan says. "Today, everyone can get the full picture of a client." All staff now have Compaq PCs linked to the mainframe, so they can

handle telephone inquiries immediately. They have Microsoft Word and Excel for producing personalised letters and spreadsbeets.

Work-flow software passes customer inquiries and administration to available people in the appropriate areas. Eagle Star Life is considering enhancing this with document imaging, cutting paperwork still

Product development

"We now hulld systems and

Because all the customer record handling is managed through a single database, systems to support new products can be developed far more quickly and added or taken away at

products in a modular way and plug them into the database," Mr Sheridan says. "The same applies if we add a new feature to an existing product. "This is reflected in the way we deal with customers. If someone wants to

add serious illness cover, we no longer

their existing single portfolio. This means customers aren't hurdened with a dozen policy numbers. Indeed, we can find all a customer's details without knowing any policy numbers." This approach has cut the time needed to get a new product to market

from months to days. The average is 10-15 days; the fastest from raw idea to live product has been five days. Achieving this radically new way of operating has involved equally radically new approaches to IT

Support of the existing systems was contracted out to software company K3. This freed the 160 staff to locus on the new project.

development.

Software packages were evaluated but rejected because they only provided 80 per cent of what was wanted. "We would have to spend a lot more to get a 100 per cent fit," Mr Sheridan says, "It was a choice between keeping up with the market or leaptrogging into the future to be ready for all the changes that were going on."

Andersen Consulting was called in and at the peak there were also 70 contract staff, taking the total head-count to 350.

Cobol was chosen because Eagle Star Life's staff knew it and it is well established and still the most widely used language, so there would be less problem finding skills. In addition, 80 per cent of the processing is still batch work, to which Cobol is suited.

Programs were written on PCs, using Micro Focus Cobol, which runs across computers of different Continued on page 13

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Focus on California

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Computer-generated image developed by 30fx interaction

Investment in information technology. • By Louise Kehoe in San Francisco,

Venture capitalists' key role in Silicon Valley

A 'hands on' approach is the hallmark of prominent West Coast venture capital groups. Financial backers open doors that might otherwise remain closed to the founders of start-up companies in the IT sector

alifornia's Silicon Val-tures are formed in the its concentration of high technology companies making semiconductor chips, computer, communi- form new businesses by the cations equipment and software. Yet one of the region's most important products is sometimes overlooked.

Tha "Valley" – it has long aince extended beyond the Santa Clara Vallay to encompass much of the San Francisco Bay Area - is extraordinarily fertile ground for the growth of new businesses. It seems to be infested with an enthusiasm for entrepreneurship that is hard to match in any other part of the world.

Each year, several hundred new technology ven-

Internet spin-offs . By Tom Foremski

region by the close-to-the-top employees of established companies. Some would-be entrepreneurs are lured to dream of building the "next Netscape" and the get-richquick promise of founders' stock options. Many, however, are driven by a belief that they can create new

tive products. There are plenty of legends to inspire the would-be entrepreneur in Silicon Valley: Bill Hewlett and the late David Packard of Hewlett-Packard, Intel's founders Gordon Moore, the late Robert Novce and Andrew Grove, Steve Jobs and Stephen Wozniak who built the

markets with truly innova-

first Apple computer in a garage, the Stanford University group that formed Sun Microsystems, and now, Jim Clark and Mark Andreessen - pictured right - at Netscape Communications.

Academic studies have, not surprisingly, linked the growth of Silicon Valley to the proximity of centres of learning such as Stanford University and tha Berkeley campus of the University of California. Yet there are many other

make the Silicon Valley a unique centre of start-up activities Most important, is "the

economic and cultural fac-

network". This is not a com-

technology has increased its efficiency with electronic communications - but rather a closely knit commu-nity of Silicon Valley venture capitalists, lawyars. marketers, press relations experts, head hunters', real estate agents and others who assist entrepreneurs with the process of creating new businesses.

In particular, the venture capitalist community plays an active role in the formation and nurturing of new husinesses. The 'hands on' approach is a hallmark of prominent West Coast venture capital groups, involving investors in honing business plans, market analysis. establishing strategic directors that have combined to tions and, frequently, in selecting senior staff for a new company.

open doors that might otherwise remain closed to the founders of start-up companies. They may introduce an entrepreneur to potential technology partners or become involved in negotiating licensing, distribution or joint venture deals.

As the backers of new companies, the venture capitalists typically sit on the board of directors and recommend lawyers, press relations experts and others who play an important part in getting the new-born company on its feet.

The "network" also provides valuable intelligence about the activities of potential competitors, up-to-theminute information about the latest rechnology advances and very importantly, places new business

> 'Enginéers change jobs simply by turning into the next parking lot'

managers "in the loop". Whether a start-up company is working on computer networking products or Internet software, designing graphics chips or comclose contact with the latest developments at companies such as Intel, Cisco Systems. Microsoft and others that set standards for the entire IT industry, is often critical to success.

Working in close proximity to both business partners and competitors is a fact of life for many Silicon Valley companies. The biggest competitor is often located just down the street. In the com-puter networking equipment market, for example, Cisco Systems, Bay Networks and 3Com are all three in Silicon Valley, within a ten-mile

radius. Some might see this as a disadvantage. Indeed, it is a long-standing joke in Silicon Valley that engineers change jobs simply by turning into the next parking lot (car park) on their wey to work.



The venture capitalists competitors rules out secrecy and imposes an informal "peer review" process on any Silicon Valley company. Under the close scrutiny of other high tech companies, new ventures are quickly recognised as win-

> Another advantage for Silicon Valley companies is the opportunity to address a home" market for information technology products Very quickly, however, suc-

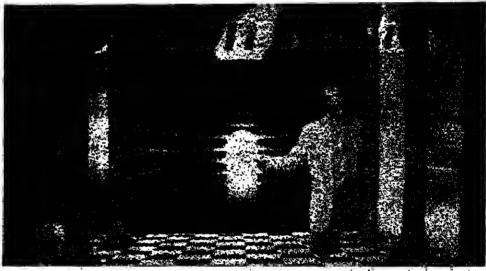
opportunities Established Silicon Valley

companies typically sell 40-60 per cent of their products outside the US, with Europe as the biggest overseas market for computer manufacturers and software developers, while Japan is the biggest international market for US chipmakers.

For the US start-up company, however, international markets are often daunting. Europe represents a confus-

Yet the close proximity of cessful California start-ups ing unified yet nationally seek International market divided market. Japan and other Asian countries have unfamiliar distribution systems and close-knit business groupings.

Business partnerships are an important part of this move beyond domestic sales. International partnerships are often critical to the success of a US technology venture. They may also moreover, create opportunities for European and Asian buslnesses to plug into the Silicon Valley "network".



Laying the foundations for the digital studio of the 21st century: Siscon Studio pioneers "virtual set" molegy, which combines live actors with computer-generated graphics

'Cal-IT Europe' in London

Investment and partnering forum

October conference will bring together European

new Internet devices Researchers are information, system configuration and hilling informatlon. He also sald that instead of \$500 - the price he

Key centre for developing

racing to develop network computers and WebTVs - TV sets that can access the Internet and browse world wide web sites

orthern California has become a key centre for the development of new types of Interpet devices that turn the traditional PC architecture on its head and embed Internet connectivity with computer functions into a wide range of devices ranging from simple network computers to consumer applications.

Larry Ellison, head of database software company, have no computers at all. Oracle Systems, has been what are being called network computers or NCs. These are very simple computers with an Ethernet card for network connections or a modem for dial-up Internet connections.

Unlike the "thick client" model represented by the PC with its high performance microprocessor, its huge hard drives and large amounts of memory, and a complex operating system such as Windows 95 or MacOS the NC is a "thin client" model, a return to the networked terminal con-

"A typical NC will have an Intel Pentium microprocessor, no hard drive, 8 megabytes of memory, an Ethernet card or modem - and says Ellison. "Unlike Microsoft, which is making the PC more complex, we are trying to make the PC simpler. It has to be something that I can use and something that my mother



Larry Ellison: heralding the age of the Network Computer

Ellison points out that about 30 per cent of US households have a PC, and while this is lauded as an achievement, it means that 70 per cent of US households

representing a huge potenmarket for ches effective computing. Corporations are also expected to be a big market for NCs. Although corporations can afford the price of a PC for most workers, it is the support and maintenance costs that are the

large financial burden. intel estimates that it costs about \$8,000 a year to support the typical corporate PC user. This is a big selling point for NCs, that they can drastically cut this expense. Without any local data storage such as a hard drive or floppy drive, users are unable to load their own

software, and they are forced to use the applications available on the corporate servers. All files are also stored on the servers. With a specific list of applications to support, it is easier for corporations to help users, and with no local data storage. facilities such as backup are easier and more effective

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With technologies such as Sun Microsystems's cross platform Java computer language, users can download slim Java applications over a corporate network at Ethernet speeds, and run them on way, It overturning the personal computer revolution by returning control over computers within an organisation back to the MIS department.

But will NC users like the fact that their files are stored on a remote server somewhere else? Sun CEO Scott McNealy, another vocal supporter of NCs, thinks users will get used to the idea.

"If you think about the data storage on remote servers as the same as keeping your money at the bank. rather than under your mattress it makes a lot of sense People don't lose their money in their bank but they can easily lose it from under their mattress," said McNealy at a recent confer-

Ellison says that NCs will have smart card readers and that users will carry these cards around with them, since all data gets backed containing their personal

originally said the NCs would be available for - they will be much cheaper at \$299 each. "Wherever you are, you will be able to use whatever network computer you find by simply using your smart card," said Ellison. "Network computers will be found in airports, hotel rooms, they will be everywhere. He also predicted that the NC will reach 100m units

shipped in the year 2000 and that it will lead to a shake out in the PC Industry. There is no need to have so many PC makers, it will be like the automobile industry where there are three major manufacturers," be says.

Simple computer devices with Internet connectivity can be made even simpler different electronics applications. WebTV Networks and Diba, both northern California-based, are working on creating the concent of the information appliance. A key focus right now is on what are being called WebTVs, TV sets with the ability to access the Internet and browse world wide web sites.

Almost every large TV manufacturer has announced WebTV models or plans to introduce such TVs over the next year. And many of those manufacturers have licensed key technologies from WebTV Networks or Diba.

These technologies include the ability to display text on a TV screen which does not have the same crisp resolution as a computer monitor. WeBTV and Diba, have also developed slim versions of Internet software auch as web browsers that can easily fit into about 2 megabytes of memory chips.

Diba sees a big market for consumer devices, mostly dedicated to single applications. For example, a kitchen might have an Internet appliance whose specialty is recipes. Users would be able to search web sites for recipes and access nutritional information. Or it could be a type of smart phone with Internet access and capable of receiving and sending The phenomenal growth of e-mail. Diba hopes that electronics products manufacturers will take up Diba's Internet appliance specifications and bring Internet ccess to a wide variety of different electronics devices.

US market research firm International Data Corporation (IDC) predicts that with network computers and Internet appliances, there will come a time, when there will be more computer devices connected to the Internet than users.

By the end of this year, IDC says there will be about 35m Internet users sharing about 30m computers connected to the Internet. But by the year 2000, there

will be more computer devices connected to the Internet than actual users because of the proliferation of network computers, households with two or more cial service companies, using computers, and foternet appliances. IDC says that by 2000 there will be 233m of these devices connected to the Internet with about 163m of articles on Singapore -

Cal-IT Europe', at London's Queen Elizabeth Centre in Westminster, on Thursday, October 10 and Friday October 11 that will

The Financial Times is co-sponsoring a conference, bring together European investors and some of these innovative California companies.

as dynamic as in California

technology manufacturers

and more than a third of

new venture-backed IT

companies in the US.

fastest growing high

home to 44 per cent of the

investors and innovative California IT companies The theme of day one of the investment and partnering forum will be Computing in the Year 2000'. Day two will focus on

modern communications. ☐ Details of participating companies and access to on-line registration are available on a dedicated part of the FT's web site,

http://www.ft.com/calit/ calhome.htm.

□ For telephone details of registration and bookings call Lindy Bird in London on +44 171 336 8710, fax +44 171 336 8703;

email cadognn@III.co.uk ☐ In Germany, information is available from Trudi Schifter, managing director, State of California European Offices of Trade and Investment. tel +49 69 743 2461, fax +49 69 745 005; email:

trudi.schifter@cal-trade.gov ☐ Details of presenting companies are available from Jennifer Stanley, California Trade & Commerce Agency in Sacramento, tel (916) 323 5668, fax (916) 322 3401 or 324 5791, email: stanleyj@smtp.doc.cagov

Mext month's FT-IT Review . Focus on Asia

Review of India's software industry

Now a global software 7 competitor with a turnover of \$1bn a year

India's software industry will be featured in a special report by Paul Taylor and other FT correspondents with next month's FT Review of Information Technology.

This report, to be published on Wednesday November 6, will chart the emergence of India as an important force in the \$300bn glohal software industry.

More than 300 companies employing 14,000 technical staff - prepare software programmes for export to the world's banking, insurance, manufacturing, transport and defence industries.

While North America and Europe are still asleep, programmers in Bangalore and other Indian cities are maintaining software systems and fixing 'bugs' for finanhigh-speed data links.

□ In next month's FT-FT Review we also hope to include the first in a series The Intelligent Island.

Among the booming Asian received a S\$377,000 govern-Tiger economies, the cltystate of Singapore is unique. A population of 3.2m occupy an island the same size as London within the M25 corri-

As part of an aggressive policy of maximising all economic resources, Singapore has become the first government in history to focus on knowledge-management as a tool of economic status.

TT 2000' is an ambitious \$200m scheme that involves pump-priming dozens of IT companies and underwriting key projects. The aim is to create a society where information flows freely and departments of state work in concert with private industry through paperless com-munication. This vision is frequently called the intelligent island.

The intelligent island, pursued by the National Comouter Board (NCB) through eight clusters centred on economic and user sectors, is envisaged as part of everydav life.

For example, the blue cars of Singapore'a Comfort Cabs company have begun to sprout receivers for the global positioning system (GPS) pioneered by the US

Local software house Knowledge Engineering

ment grant towards creating a S\$30m fleet management system. This uses a geographical database of the island's roads system and lays taxi positions, con-stantly updated by the satellite-based GPS signals, on top of road routes. Dispatchers summon up the address of callers and look for the

little blue cab lcon that is nearest to the customer.

☐ For more editorial details of the November Nick Mayle, on (415) 637 Review, piease see page two

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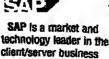
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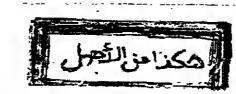
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US report / IT directions: object technology

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Birthplace of emerging technologies

Tom Foremski highlights the increase of Internet-related companies in Silicon Valley

The rapid rise of the Internet and the use of Internet technologies as intranets - has spawned a large number of start-up companies targeting these markets, with the majority of them centred in and around northern California's

Silicon Valley. California is a natural hreeding ground for such companies because of two factors. Leading network communications companies such as Cisco Systems, Bay Networks and 3Com have their headquarters there. and as executives from these and other Silicon Valley companies leave to start their own ventures, the area provides a large pool of talented people to ataff the start-ups.

Secondly, there is a great amount of venture capital money in Silicon Valley, making access to kay start-up capital - and second and third financing - more readily available there than anywhere else in the US, or the world.

"Venture capitalists are telling ma that they are funding mostly Internet-related companies, and most of them intend to use our Java language. This is unprecedented," said Sun Microsystems' chief executive Scott McNealy at a recent computer industry conference.

Sun's Java computer language is aimed squarely at Internet applications since it allows distribution of software applications over networks, and it is 'platform independent' which allows programmers to create a single application rather than multiple versions that run on different hardware plat. Internet appliances - turn-

l'enture capital interest in the Internet and Java-related products is demonstrated by leading Silicon Valley venture capital firm Kleiner Perkins Caufield & Byers (KPCB), and its recently established Java Fund, which has raised \$100m from individual investors and ten leading computer industry companies.

KPCB and Sun Microsys tems are the two largest investors in the fund followed by Cisco Systems, Comcast, Compaq Computer, IBM, Itochu, Netscape Communications, Oracle, TCI Technology Ventures and US West Media Group who have invested at least \$4m each.

The Java Fund has mads initial investments in Active Software, Calico Technology. and Marimha. Active Software, founded in 1995, develops a software communications system, ActiveWeb. that ailows dissimilar resources such as applications, databases, and Javaenabled web browsers to exchange information across corporate intranets and tha

Internet. Calico Technology is a provider of interactive, enterprise configuration products that antomate the configuration and quotation of huildto-order products and services - and Marimba provides technologies for devel-ping and deploying network-aware Java applicaions. Marimba was formed a February 1996 by four key nembers of the original ava development team.

The Java Fund is a sign of towing competition among tract the best companies.

KPCB hopes the Fund will give it an edge in bringing key companies to its investors - "being focused on Java gives us an advantage in that we understand the technology and this is important for investors and the

companies we invest in," says Kevin Compton, a general partner at KPCB. "Wa'll finance other Internet-related companies, but the vast majority are bringing us business plans focusing on Java as a key technol-

Venture capital interest is also heing fuelled hy the spectacular success of initial public offerings (IPOs) earlier this year, such as Yahoo, CyberCash, Excita and Infoseek. Not to mention tha investor frenzy surrounding the IPO last year of Netscape Communications. In most cases, these firms have been taken to market based on a "concept", rather than a track record of earnings and profits - the traditional factors that are usually the basis for an IPO.

In the case of Yahoo. KPCB managed to turn an initial investment of about \$1m in Yahoo into an IPO bonanza in tha space of about a year. Usually, a start-up company goes through a three to five-year cycla from initial funding, second and tertiary funding then an IPO, With the Internet craze, the cycle has been dramatically shortened.

Investor frenzy has cooled significantly since those Internet IPOs floated earlier this year, but there is still no shortage of money available for a company with a good Internet story.

Some Internet start-up companies which are a favourite of venture capital firms include PointCast, which offers Internet content and a screen-saver type product that brings web pages to users and relies on online advertising. Companies developing software for ing TVs into Internet access systems, for exa also attracting a lot of funding. This includes WebTV Networks and Diba: see report on facing page.

Taking a company public is not the only way for investors to turn over fast profits: being acquired by another company can produce similar results. Granite Systems, founded about a year ago hy Andreas Bechtolsheim, one of the founders of Sun Microsystems, and which is developing gigabit Ethernet technology that has applications in Intranets, has been a favourite among venture capital firms. The initial investors recently managed to cash out early after Cisco said it would acquire the

firm for about \$220m. lpsilon Networks another rising star, also founded by a former senior Sun executive, Tom Lyon. Ipsilon is developing a switching technology that combines the ease of the Internet IP protocol with fast ATM (Asynchronous Transfer Mode) communications technology in a unique niche that could be highly profitable as corporations seek to send multimedia data over

their intranets. The Japanese publisher and computer products distributor Softbank, has also heen active in California, specifically targeting investments in Internet compa-

The strength of Silicon Valley's fast-growing network equipment companies and the hundreds of Internet-related companies, may one day lead to a name change: Network Valley might become a more apt enture capital firms to name for this birthplace of emerging technologies.

Advances in software development . By Philip Manchester

Why mainstream businesses are interested in 'object' technology

It sounds like an abstract concept, but object-oriented design will produce better and cheaper software, offering benefits for business-users

ince the beginning of the decade, the computer software industry has buzzed with excitement about the concept of objectoriented design.

But it is no surprise that non-technical folk have gazed on in bewilderment as computer scientists have compared the merits of this or that approach to using the idea. Software is an abstract subject at any level; object-oriented design which defines the ways that software is made and works - takes the abstraction even further

Despite Its esoteric nature, however, objects are important and they will become even more so. Indeed, by the end of the decade, it is likely that all software will lay claim to being object-oriented and even occasional users of computers will need to understand the concept.

The market research group. Ovum, forecasts a world-wide market for object-oriented software technology and services worth \$10hn by the year

companies are already putting objects into practice -

The benefits of

industries will be

worth waiting for

through to the real world

and give genuine benefits.

Object-oriented design - a

way of packaging software

into self-contained compo-

nents - is no exception,

Experts have waxed lyrical

ahout the technical advan-

tages since the 1980s. Now

the first evidence of real

progress is beginning to

emerge as many companies

are using object-oriented

software in proper applica-

pressure to react to business demand, and the existing IT

infrastructure cannot keep

up. They are turning to the

object-oriented approach to

speed things up. They have

stopped talking about it and

started putting in proper

business solutions, based on

the technology," says Mr

Paul Panovka, a software

development specialist with

The telecoms industry is

but other sectors are

among leading ploneer users

catching up fast, particularly

financial services - "we

have just entered a partner-

ship with the Bank of Amer-

ica to build software objects

for the banking sector," he

Other software suppliers

support this view. In tele-

coms, companies in the US.

UK, Japan and Korea have

switched to object-oriented

design for their new applica-

tions in customer-service

and hilling. And in the

defence industry, companies

such as Thomson and Lock-

heed Martin are using it for

command and control

Hitachi Europe.

"Companies are under

writes Philip Manchester.

ew ideas in software

technology always

take time to filter

for specific

■ Breakthrough for business

A faster route

to competitive

re-usable software software company flog.

advantages

munications and defence industries," says Mr Pierre Haren, president and chief executive of French software specialist Ilog.

'If you call businesses and organisations such as Boeing, UK Customs, John Deere and Sabre 'mainstream', then objects are mainstream," adds Dr Richard Soley, technical director of the Object Management Group (OMG). Advocates of object-ori-

ented design claim many advantages over conventional ways of building software. Firstly, it lets developers link software more easily to the 'real' world. An 'object' can be defined

in terms that non-technical people can understand. For example, a customer can be defined as an 'object'. An order, an invoice, a payment - indeed, any business process or data item can he defined and built as a self-contained object.

Secondly, objects promote re-use of software. A 'customer object', for example, will include data on address details, credit rating, outstanding invoice balance, buying policy and contact details. The same object can, particularly in the telecom- of course, be re-cycled

systems, says Mr Plerre

Haren, president of French

He also notes some prog

ress in financial trading

rooms - although they are

not as far advanced. Other areas - such as manufactur-

ing and general commerce -

have still to take the step,

but the evidence suggests

"Overall, object technol-

ogy is now mature and it's

only a matter of time before

the concept is taken up

across the board," says Mr

Haren. He sees the main

breakthrough in the busi-

ness use of object-oriented

software accelerating next

ment of re-usable generic

objects for specific busi-

talk on objects has concen-

trated on the underlying

technical stuff. What we are

interested in is the next level

up: we want re-usable

objects that relate to the business. Although people

have been talking about re-

usable software for some

time, it is only now that it is

starting to happen. I see 1997

He points to the announce-

ment by IBM in August of an

initiative to promote the

development of business-spe-

cific objects as an example of

the sort of stimulus needed.

The so-called "San Francisco

Project" aims to bring soft-

ware developers together to

create a library of industry-

specific objects that anyone

has been touted as the best

way to huild re-usable soft-

ware, but the cost of writing

it cannot be carried by a sin-

gle project so it has not hap-

pened. The fact that IBM is

getting into this model is

very important and will

Continued on page 16

"Ohiect-oriented software

as the year of re-use."

"The key is the develop-

esses. So far, most of the

that they will soon.

year, however.

"A few large pioneering

applications.

The spread of object-oriented technology depends upon wide acceptance of important 'open' standards - an area which has always caused problems in the soft-

object technologies, has published a series of software standards in the bone of resolving this conflict. But although it has attracted wide support from industry leaders such as IBM, Sun Microsystems, Hewiett Packard and ICL, it bas been fighting a rearguard battle

with the most important

player in the software indus-

try: Microsoft...

nspite of being a member of OMC. Microsoft bas consistently pioughed its own furrow when it comes to important software standards - using its dominant market position on the desktop to promote its own version of object technology. There is good reason: Microsoft wants to keep its position at the top of the PC market and open object-oriented standards threaten

As a result, Microsoft bas rolled out a series of software technologies which will belp it keep control of the software market. Object Linking and Embedding (OLE) and, more recently, a technology called Active-X. both conflict directly with OMG's standards.

To some extent, Microsoft has been beiped by the slow progress in turning the OMG

standards into usable products. OMG has, necessarily, needed to gain consensus from its members, and despite a highly pragmatic approach, the process is bound to take longer than a single company acting alone.

"People are tired of waiting. A year ago you had to be OMG compatible to seii object-oriented technology. Now people are happy to take the Microsoft version," says Mr Haren of Ilog. Other software vendors see the answer in hiding

object-oriented technology behind a development framework - thus leaving the option to move to OMG or Microsoft - depending on which one emerges as the dominant 'standard'. "People want the benefits

of objects without the technoiogy poking them in the eye," says Dr Tony Hili, UK managing director of software development specialist, Intersolv.

"There are still problems with all of the underlying technologies. OMG's technology is now available - but there are concerns about its robustness. Microsoft's object technology is still not complete. Our approach is to offer an environment that puts all of this under the covers so we can move easily to wbatever works."

Dr Soley of OMG is more sceptical about Microsoft, however. He sees Microsoft's recent move to promote the Active-x technology as a rival to OMC as part of a hroader market plan the fight off the threat from the Internet specialist, Netscape.

"The announcement coincided with Netscape's announcement to adopt the OMG object technology for distributing objects across tbe Internet. Apart from this, there appears to be no new technical argument in favour of Microsoft.

"But. we are pragmatists," he adds. "We have worked successfully with Microsoft in the past to resolve conflicts and I am sure we will in the future.'

Apart from the infighting tbat is a persisteot characteristic of the software industry, one thing is clear: object-oriented design is the future of software, Whoever gains on the supply-side will, ultimately, bave no impact on the benefits that will

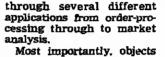
come to users of software. Object-oriented design will produce better, cheaper and more flexible software - no matter who produces it.

New applications for object

Directions

Business applications

for object-oriented software technology



are 'portable' across different computer environments. This means that a software object huilt for one computer say, a personal computer could, in theory, also work on a large mainframe. These qualities should reduce the costs involved in huilding new software and improve the quality of computer

There is a catch, however, ware industry.
Since the beginning of the

computer software industry in the 1960s, suppliers bave used software as a way to control their markets. Open standards undermine this and, as a result, the industry has resisted them. If a customer can move its software easily to another computer environment - one of the main reasons for open standards - then it is less easy to keep them.

The OMG, an industrybacked organisation set up in the late 1980s to promote



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zes. Even so, the modern C++ nguage was used where appropriate typically to handle complex risk dculations.

However, the biggest success factor as the involvement of business ople. About 40 end-users – 10 per ent of the customer services staff were seconded to the project II time. This created "a lot of essure and pain", as Mr Sberidan uts it: the business had to continue. hich meant heavy use of temporary aff. But the move paid good

ividends. These end-users were fully involved I designing and testing the systems. Specially the display screens and whine facilities. They wrote the

associated manual procedures, and produced and ran user training. This total immersion meant they became 'evangelists' among their colleagues as systems went live - "their integration was such that new contractors couldn't tell the difference between them and the IT staff," Mr Sheridan says.

This integration continues: "The business manager sits 10 feet from me and we still have 16 users working here as the project nears its end. People are keen to do tours of duty in IT, as it is seen as a good training ground. This will probably continue, with end-users spending six to 12 months in IT."

The project budget was initially £55m. over five years. New regulations and an expansion of the project scope later took this to £62m, and the final cost was £67m. The extra £5m is put

down to time and cost overruns which are common in IT projects. Mr Sheridan says: "If we'd been told in 1990 that there might be an overrun of 8-9 per cent. we would have gone ahead anyway."

The first new systems went live in August 1995. There has already been significant return on investment. The staff has been cut by 20 per cent, and by even more in IT; from 160 to 100. New products are brought to market in days rather than months. And sales are growing from month to month.

"The business side can now look at a new product and say: Will it succeed as a product?'," Mr Sheridan says. Before, one of the questions was always: 'Can we do this in the first place?' IT is no longer on the critical

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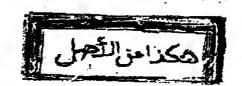
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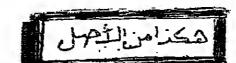
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Computer staff issues

A re-think needed on training

Applying object technology demands new skills, writes John Kavanagh

anagers preparing their computer staff for object-oriented systems need to rethink their approach to IT training, according to users and supptiers which have learned the tesson through experience.

Peopte go on a Vtsual Basic programming course and thick they're '00' experts." says Mr Hartey Davis, technology director at object-oriented software specialist Ilog.

"Their managers don't help: IT managers can be very strong on long-term vision but weaker on short-term needs. There's e lot of interest being generated in object technology as people read articles about tt. and they think it's easy.

"In fact, the programming language training is simple: the bard part is conceiving a business problem in an 'object way' in the first

Mr Nick Cains, technical director at Concise Software. agrees: "Object technology is all ebout design principles. not programming principles. The line between the designer and the programmer, and to some extent the analyst, disappears, because the end-user's system is built up as much as possible from common objects or blocks of code already stored in an object library.

Traditional programmers can find this idea difficult, he says. "There are people who simply cannot grasp the concept of object technology or why it's used," be says. Even many Cobol programmers who have used sub-routine libraries can't grasp how objects can be built into their eystems automati-

by a survey by consultancy McGregor Boyall, which found that well over 70 per cent of financial organisations - among the biggest users of object-oriented systems ~ had problems finding suitable business analysts, analyst/programmers and team leaders.

As one respondent put it, "The problem is that OO

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development demands e different calibre of analyst/programmer: one who thinks further and wider than the program specification."

Nick Cairns of Concise

always worked on.

from scratch.

ell about design principles'

"You must also look for

willingness to eccept the

idea of software re-use. There are always people who

say that a piece of code in

the object library is not

quite good enough or does

not quite fit what they need.

so they'll write the software

"With these groupe it's

unlikely that people will say

they don't want to learn, but there are tell-tale signs; whn

has been looking at object

technology in their own

time, or huying the books

"In addition, who has a successful track record in

grasping new concepts? It's

been said that getting to

grips with object technology

is like having your brain

turned inside out, hecause

you need an entirely differ-

ent perspective. Not every-

Mr Higgins recommends

"profile audits" of staff to

find those with the right

ability and enthuslasm for

He believes the people to

look for in particular are

those whn have combined

the discipline and structured

methods of the IT depart-

ment with experience of working on PC systems,

especially graphical user interfaces. People who have

worked mainly on PCs in an

unstructured way should be

treated warily during selec-

tion for object-oriented train-

Candidates must also be able to contribute to team

spirit, rather than working

purely on their nwn. In par-

ticular, Mr Higgins says they

need "first class communica-

tion skills for working with

end-users, and the ability to

ness problem to an IT solu-

tion". He believes that no

more than a quarter of IT

ria, but he says that for IT

departments just starting in

object technology, it is best

to identify these people and

focus training on them at

There is general agree-

ment on where training should start. "When we train

people we don't even took at

programming languages ini-

tially, but concentrate on the

concepts of object technol-

ogy," says Nick Cains at

Concise Software. "The issues can go nver the heads

of even very experienced

Analysis, design and pro-

gramming tanguages come

after the basic concepts have

Configuration manage-

ment, a skill that is estab-

lisbed in industries such as

defence and aerospace,

which run many big pro-

jects, is also starting to

emerge in TT. especially as

object-oriented projects

become more common. It

hrings formal control and

monitoring of all compo-

nents of a project or system and is relevant to object

technology because systems

are built from software com-

ponents (objects). Changes

to objects by one system

developer can affect other

he British Computer

IT staff, has recently formed

a Configuration Manage-

ment specialist group to

spread the word and study

training, eupport products

Harley Davis at Ilog says

all training should be put

into practice as soon as pos-

sible, ideally by letting peo-

ple join existing object tech-

notogy teams, where they

can be weaned by experi-

"If you're starting from

scratch, begin with a devel-

opment that's fairly easy, to

get you ovar the bump in

thinking and practice," he

says. "Managers who send

people for training too often

then commit a project to

object technology; this can

be hard on the people who

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Society's configuration man-

agement specialist group can

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programmers.

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one can handle this."

learning.

and reading them?

Mr John Higgins has personally dealt with such issues in training and recruitment as development director et business software company SSA. The company is now switching to object technology for most develop-

"You have to start with the basic recognition that there are iesues bere and that it's not just question of putting people through a training sausage machine,

Mr Higgins believes that IT managers should first clarify their own thinking. typically by going to some of the growing number of conferences on object technology, ideally in their own industry sector.

"Do you need an evange



Object technology is like getting your brain turned inside out

list tn spread the word internally, or a technical architect to make it happen, or both in one person?" he

"Go to seminars and conferences, listen and talk to the speakers: ask them if the people you need exist and bow you can attract or train lise your own thoughts, which might be a bit hazy at this stage.

staff will meet all these crite-Once the requirement has been clarified, managers need to find the right people internally, he says.

"First, not everyone wants to learn: there are certainly peopte who only work well in their own comfort zone, supporting systems they've Business applications

Benefits begin to flow at last

Pioneers report impressive achievements, writes George Black

wo years ago there would hardly have been an article to write ebout the benefits of object technology, but now such henefits have begun to emerge.

Much trumpeted as the cey to re-usability of code and therefore to higher pro-ductivity, object software is steadily transforming the entire industry, from hardware design to programming techniques.

The benefits have taken a while to flow through, mainly because there has been a shortage of people with the skills to develop the systems. But the pioneers of the new type of software are now reporting some impressive achievements. Many, if not most, large organisations are starting to use object tools, languages and methods to develop leading applica-

Paradoxically, this year's competition for new object systems run by the Object World show in London produced fewer entrants than in previous years and no prize was awarded in the large systems category. But the chairman of the judging panel Mr Samit Khosla, European technical director for software house SSA. says this reflects the shift of the technology from experimental to strategic status.

"Users such as banks and telecom companies are less willing to share their results as the technology has become more important to them," he observes. The contest did, however, produce a number of users who were willing to disclose their innovative sotutions. Among the winners was the financial services company Allied Dunbar. which created a core busimation by building a set of

The mobile phone network operator Vodafone. another winner, showed how the technology could be harnessed to link new and 'legacy' systems. It turned to object technology to bring together the systems for its analog and digital phnne services. using ICL's DAIS, a software component known as an object request broker.

DAIS is based on the Object Management Group's Common Object Broker Request Architecture (Corba) standard. Virtually all organisations even including a company as young as Vodafone have legacy systems and face a problem in getting them to work with their newer epplications.

When object technology became a buzzword a few years ago it was argued thet it would replace systems based on relational databases and remove the need to integrate new and

old. That has not happened and so the issue of integrating new and old has become a crucial one.

The fact that Vodafone has been able to use object technology to do this may encourage others to try a similar approach. The company has become an ICL reference site. Vodafone'a project manager Mr John Douglass says theirs is a migration technique which many others could use and which would protect their past investment in soft

"It would have been pos sible to do it without object technology, but it would have taken a lot longer . we would probably still be working on it," he says.

What the vendors of object technology most need is a way of convincing cantious users that their tools are likely to deliver what is promised. SSA's Mr Khosla argues that object technology acts a catalyst to change atti-

tudes - "it is not a miracle

cure, but it helps people to

focus on changing the way

In the next two years, many smaller organisations will start using object technology

in which software can best be developed," he says.

Thus, Zurich Insurance has managed to introduce a culture of re-use of software through adopting ideas based on object technology, but without using object tools. It has quantifted the henefit clearly: producing a quotation now takes around 40 minutes: before, it took 2.5 hours. Many of those who have benefited from object technology are not even aware of what It-ie that has ness system for client infor- helped them; In the UK. when the Home Office's mmigrat ordered a new system from ICL to cut the costs of image-scanning at airports, the users did not realise that it was breaking new ground in using Corba and DAIS.

The Home Office's project director Ken Richardson says: "We did not know anything about it until after it was installed. All we wanted was a system that worked and at a rea-

sonable price." Nor, certainly, did the House of Commons Public Accounts Committee, when it praised the substantial savings achieved by the immigration service, know that object software was responsible. Object technology is beginning to be chosen as the most cost-effective way of developing targe, strategic systems. Anglian Weter has

emharked on one of the first large business systems

Pan-European trials . By Geoffrey Nam

hiect technology has never been more hject technology has fashionable than now and its promise of quicker software development and lower costs is a potent lure, particularly in Europe where 70 per cent of software is produced by non-IT companies whose internal software projects are untoriously difficult to control

In 1994, the European Commission started its European System and Software Initiative (ESSI) to promote new software development techniques in European user organisations and encourage a home-grown industry in advanced software development methods and tools.

As with most software, the market for object technology and other development tools is dominated by US vendors. Object technology was just one of the techniques available to organisations looking to produce cheaper, better quality software through

indeed many analysts seree that before turning to exotic object technology, most companies can echieve greater and longer lasting benefits by analysing and improving their software development "process". This typically means addressing organisational issues such as poor project management or inedequate testing proce-

dures.
"New technology tends to henefit one project and improvements are limited," says George George, senior consultant with the UK research firm Ovum, which bas published a report on the pilot phase of ESSL When you use process

improvement the very soul of the business is touched. The trouble is, however, that process is not glamorous." The results of ESSI bear this out. Object-oriented

(O-O) technology was the most popular topic among the 94 projects in the pilot phase, which finished at the beginning of this year. A follow-on phase involv-

ing 100 new experiments is now running. Of the 25 pilot projects described in the Ovum report, eight chose O-O technology to improve their software development, while just one chose to focus on project management. Most participants believed

object technology could use objects but we cannot reduce costs and allow them the report attributes the participants' keen interest in object technology to heavy marketing.

"Unfortunately, a lnt of organisations are under strong pressure from their developers to use the 'latest and greatest' technologies. and the object technology vendors are making lots of money because of the hype," says George George.

ne ESSt project participant discovered the hard way that some advertised results may not always live up to expectations.

Belgian software bouse Advanced Information Systems (AIS) is no newcomer to object technology in the 1980s it used the early object-based languages Lisp and SmaltTalk - but in recent years most of its work has been done using the conventional C programming

Hard bumps along the way

Some European companies report frustrations in efforts to apply object technology

towards object technology and decided it needed tn update its skills. Like many small companies, it did not have the resources to evaluate object technology itself, so it turned to ESSL

The EC initiative funds the extra cost incurred by participants in evaluating and using new software technologies and methods.

AIS chose to experiment object technology on two real-world projects; the first, a milling program for the hot-strip mills of a steel plant: the second, algorithmbased software designed to solve a variety of complex industrial problems, such as optimising the cutting of shapes in foam mats.

AIS chose two O-O development methods, Coad/Yourdon and Booch, for the two cover the analysis and design phases of a software Other O-O methods exist,

hnt the biggest problem developers face is not choosing a method, hut rather finding good tools to support it. Object analysis and design tools aim to simplify the developers' task by allowing them to hulld their systems using screen-based diagrams. These diagrams contain objects that represent real-world business functions.

This object-based approach thus allows developers to concentrate on designing a system that better matches business needs. AIS had problems choosing tools to support its chosen methods and looked at four without finding one that was suitable. "The concepts of O-O development are quite mature, but the technology is still evolving," says Stephane Awouters, project eader at AIS.

"We know we want to change our development to get the tools to support

For the ESSI projects, the tools AIS looked at either could not be delivered in time or were being frequently modified through new releases. AIS feared the latter would impose a substantial training burden by requiring its developers to keep up with the latest versions.

tool to help it automate the production of O-O program code - Rational Rose from US firm Rational Software bnt as for the trickler analysis and design phases, AIS is still looking.

The company did find a

Awouters is confident better tools will arrive, thanks to a new unified O-O method being developed. Thie will end today's proliferation of different methods and tools and force vendors to develop toole to support a single

standard. Participants in another ESSI project experienced similar frustrations to AIS. The project involved UK software house Prism Technologies and ICI Eutech, the technology arm of the chemicals giant ICL

Prism has developed a generic object-based software "platform" that can be used to build distributed object applications for its process-industry customers, such as ICI Eutech.

The product was developed without the support of methods and tools, because Prism had found problems with "first generation" object technology.

Nevertheless, decided in 1994 to take a fresh look at the newer "second generation" tools and through the ESSI initiative it hoped to use commercial object technology to build two applications for ICI Eutech.

When we looked at the market there was little that was truly object oriented." says Steve Jennis, Prism'e marketing director. "The industry has progressed a lot, but even today it's still a lab-based technology."

or the ESSI project, Prism eventually set-tled on Fusion, a second-generation O-O analysis and design method developed by Hewlett Packard to unify features of earlier methods.

The supporting tool was Paradigm Plus, from US software house Platinum Technology. The combination of Fusion and Paradigm Plus proved a winner, yielding higher quality software that took less time to produce.

The project was also easier to manage and costs were lower, though Prism does not know whether this was due to the new technology or simply the result of applying old-fashioned project management techniques more rigorously.

Prism plans to encourage other customers to use Pasion, but ICI Eutech decided the method was not suitable for its real-time process control applications.

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For Prism's Steve Jennis pursuing, despite the limitations of today's commercial tools.

"At least 60 per cent of applications is standard. run-of-the-mill stuff," he says. "By using objects you can duplicate this and concentrate development on the rest, so raising productiv-

The Belgian company AIS also believes the rewards of objects are worth the effort. It is participating in a follow-on ESSI project involving object technologies. This time, however, AIS

has learnt its lesson and it has spurned the latest technologies for the veteran object language SmallTalk -even if it is 20 years old, it's still very up to date. More importantly, the tools are readily available," says Stephane Awouters.





Continued from page 13

push things along," he says. The project will concentrate on delivering objects within a series of speciel trameworks

research with IBM to identify an appropriate framework which defines the process, function and data that will be needed," notes Mr Simon Dessain, maneging director of software com pany Cincom UK, one of the companies involved.

In parallel with the IBM initiative, the Object Management Group (OMG), an industry group set up in 1989 to promote standards in object-oriented software, has set up a number of specialist groups that aim to define the specifications for industry-

specific software objects. The first of these, the Financial Domain Task Force (FDTF), is focused on specifying objects that can he used in the financial services sector. "All businesses have one

thing in common - they suppty goods and services which customers will eventually pay for. They need the mechanisms to handle the basic accounting - which doesn't change much. Objects are a good way of making this

but where's the bathroom?""

Rapid support Mr Hassall and his team set about lobbying support from financial companies around the world and was surprised how quickly they

saw the logic of common reusable objects. "We found that not only wes it feasible to create objects - but it was also easy for the businesses to understand the advantages. We now have more than 100 organisations around the world involved in developing

specifications for objects that everyone can use." There is still a great deal of work to do, he says, hut that progress has been made in three important areas: currency exchange, business calendars and interfaces to Swift, the banks' chequeclearing system.

notes that the FDTF effort has already been influential

It has served as the model for the planning of task forces in other business sec-

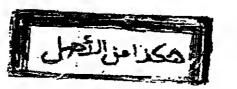
The emergence of common software in the form of industry-specific objects will of course take time. But the results will be worth waiting for - it will mean that software builders will be free to concentrate on the extra features that can give a business an edge over its rivals, rather than merely re-working the same processes that have been built a hundred times already.

"It reduces the time to build and the risk involved in new applications," says Mr Haren of Ilog. It will also cut costs and lead to better software - an idea that is long overdue.

Philip Manchester



the web, turn on taps.



17 Directions

FT-IT

Database war declared

Informix, a leading database systems vendor, has spent \$400m on Illustra, a \$5m turnover company. Informix aims to win a technical lead over competitors by extending its relational database to incorporate robjects. Phil White, chief executive of informix, outlines his strategy

is aim is audacious: mix's core parallel database "We want to take the contents of filing cabinets, e-mail machines, fax machines, voice machines, PCs and so on and put them all into one place on a database server box," says Mr White,

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"When we do, there will be a paradigm shift in the way people think about managing information and utilising it to run their husinesses and improve productivity. We will transform the indus-try with a dramatic and compelling change."

Informix re-invented itself

in 1994 and had a record year in 1995. Now it intends to re-invent itself again using object relational technology.

The World Wide Web is driving new information types and content, which is the real rationale for the merger with Illustra Illustra'a object relational

content management system will be integrated into Infor- image, graphics, and so on,

technology to create the Informix Universal Server. "Object databases have had little success because they are difficult to migrate to, and have poor performance," explains Mr White. Illustra's object relational design gives us a technology lead, because other database vendors will have to re-architect their products to compete with us. At informix, we now have the two greatest database architects in the world. Mike Saranga who designed MVS and DB2

Dinstra. He adds: "We have the scaleability and performance of the relational database and extend it with the ability to add unstructured and new types of data. Only about 15 per cent of data in day-to-day operations is numbers and characters. The rest is voice.

when he was at IBM and

Michael Stonebreaker, who

designed both Ingres and

tional database to cover these is a simple but elegant solution called DataBlades."

A DataBlade is a software module which supports a particular type of data, (see box: below, right). It can be written by Informix, third parties or by users.

ESRI is writing a geographic mapping DataBlade and Verity is producing a text DataBlade. Consultants can write industry-specific DataBlades. Mr White expects that there will be a hundred different choices by the end of 1996 - and 1.000 later.

"Whereas our competitors want customers to use a separate database for each type. we can add pictures, images and text to users existing applications without them being re-architected. This will make users more productive," he says

bigger opportunity which Mr White anticipates is that incorporating rich formats into a data warehouse will provide organisations with the ability to 'mine' their unstructured data.

"We were coming up against Illustra in the market place, not IBM, Oracle or Sybase," explains Mr White. "People liked Illustra, but it

The extension of the rela- such as Silicon Graphics wanted our scaleability and strategy. Our potential customers liked both products and asked us to get together. I bought the company when I could get used to the idea of paying \$400m for a \$5mturnover company.

"When we announced it. the analysts estimated that we had an 18-20 month lead. If it is only half that, it is still a lifetime in this industry. The investment is worth it for the lead it will give us," he says. "Informix Universal

Server will be with some customers In the third quarter, but when it ships in the fourth quarter we will change the industry.
"Larry Ellison (chief exec-

utive of Oracle softwarel says you can't put a boat and a plane together, hut we had the hest brains in the industry looking at it for a ear before we went with

"We don't believe anybody can extend their products without 're-architecting' them. Ellison is putting four separate products together, Stonehreaker which describes as three warts and bandaid.

Mr White is cautious about the letest industry fashion, the network computer - "Ellison and everybody else wants a light-weight client, but the \$500 personal computer (with hard and floppy disks) has made it lose its impetus," he

When I was at Wyse, we built a diskless PC, but people wanted to store data and applications locally. In selected applications, the network computer will be of great benefit. However, with more users eccessing richer data we should benefit as much, if not more, than Ora-

Mr White, who recently received the 'Legend in Leadership' award from the cafeteria. In the IT industry, techni-Nasdaq stock Market and



in the world in five years

all the time - "I realised that it gave us the opportunity to program data on to a card securely. It could be the next client. We bave a consortium with Gemplus and Hewlett Packard to huild a personal information card."

Gemplus is a leader is smartcard production, manufacturing 55m a month: Hewlett Packard is providing security and Informix are contributing CQL, a card query language, which is a class library based on a subset of Informix's development language.

Fifty people are working on the project and six pilots projects are being launched. The cards will be a store of preferences for services such as car hire, hotels and air travel. The cards, when used, will be linked to Informix databases on servers. This will provide a new opportunity for Informix to expand the market for Universal Server. Peoplesoft is huilding applications for universities and want a smart card for parking, security.

cal superiority has frequently failed to translate to market leadership. Informix must communicate its marketing message clearly and strongly if is to benefit from the technological lead which

it believes Illustra has given it. The key to this will be Informix' partners, whom Mr White helieves have the ahility to add value to their applications which will give

him an advantage in 1997. However, he has no doubts about his ability to do this: "Informix will he the higgest database vendor in the world in five years and the preferred supplier for users of database technology."

DataBlades

The Illustra database hrings to the Informix relational database system the ability to store unstructured data, using the special management technique of the relationa

New types of data are stored as individual software 'objects' within the familiar 'table' structure of a relational database. Then a software module, called a 'DataBlade' is added to define the new data structure and provide the functions to manipulate

More details are available on the Internet: http://www.illustra.com

Objects and the Internet

Software goes down the line

Languages such as Java and ActiveX promise an interactive future for the Net, writes George Black

he growth of the Internet is accelerating the use of object technology by larger companies, according to analysts at Forrester Research in the US.

Don Palma, a Forrester senior analyst, says that the biggest growth in object technology will come next year and the year after, when the Java language. originated by Sun Microsystems, and its competitors start to be widely deployed. The Internet and object techpology will go hand in hand. hecause huilding Interpet applications will require the power of object technology.

Multimedia applications combining corporate data, video and audio, and grapbics - will require new objectsoftware tools to manage them. They will he developed in object technology such as Java, enabling users to download application software components, or "applets", whenever they are needed. Internet tools, such as Netscape's and Microsoft's browsers, allow up-to-date applications to he downloaded from the server, instead of residing on the

when circumstances change. This is expected to he far more cost-effective for the application developer, as well as more satisfactory for the user. Many Internet-access providers already deliver software updetes over the wire to overcome the problem of reproducing and distributing large quantitles of disks, and object technology will simplify the process further.

user's personal computer

end needing replacement

Java is able to produce applications which can be downloaded to any bardware platform, provided that platform bas been properly

designed to accept them. Netscape announced in the summer that the next verslon of its browser, due for release around the end of this year, will encompass object technology. This will include an object request hroker (ORB) based on the Object Management Group's Corba (Common Object Request Broker Architecture) standard and compatihle with the Internet Inter-

ORBProtocol (HOP). The growing support for the IIOP hy leading software companies such as Oracle and IBM's Lotus subsidiary marks a significant move towards reconstructing the Internet on object technology principles. HOP is expected to become one of the most important protocols in use on the Internet, complementing HTTP (the Hyper-Text Transfer Protocol).

Much of the industry's interest now focuses on whether the Internet's services will be dominated by Microsoft or Netscape. Microsoft belatedly acknowledged the importance of the Internet this year and proclaimed its intention to join the industry effort to commercialise it. It is developing an object version of its Windows NT operating system, code-named "Cairo", which bas hegun to appear in

However, Netscape seems to have stolen a march on it. The company is thought to view Java as a means of weakening Microsoft's dominance of the industry. It is questionable whether Microsoft's Windows will continue as a de facto world standard in e husiness in which the Interpet is central, as it is expected to become within a few years. Moreover the environment which Microsoft now dominates - the desktop, equipped with an Intel-hased personal computer running Windows and Office applications - may decline in importance,

It looks likely that many users will turn to smaller

Continued on next page

Wanted: proof of cost-savings Continued from facing page: a lot of extra work.

re-engineering programmes in the UK to be based on advanced object tool sets. It is using Select Software Tools' Select Enterprise and Forte Software's Forte Application Environment on a five-year project.

Mr Andy Wilson, managing consultant at Computer Sciences, to which Anglian Water has outsourced its systems, says object technology is enabling the developers to model the applications much more closely on the business. Also, O-O technology will handle the distribution of the systems without the developers needing to do different development meth- neering large companies.

ustomer

Meanwhile, the cable operator Videotron is having a network management system hullt in Sun Microsystems' Java object language. The work is being done by the UK software house Protek, with a 20 gigabyte object database based on Object Design's Object Storeprod-

Protek'a development services manager Mr Paul Cash says object technology was chosen because the system would have taken much longer to build using traditional tools. Buyers would like to be re-assured by figures that illustrate the likely costs of successes of some of the pio-

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ods, particularly the overall cost of ownership of applications, including the often high hut hidden costs of modification and maintenance. Initiatives are being mounted to create software development metrics, one of them through the OMG in the US, another through the Europe-based Metrics Club.

The difficulty is mainly in measuring elusive aspects such as the extent of re-use and the fit to the husiness. In the next two to three years many smaller organisations are expected to start using object technology as they hear more about the

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I Impact of IT in manufacturing a By Andrew Bexter

Senior managers evaluate the IT payback

How do leading manufacturing companies view their investments in information technology? And how do they measure the payback or otherwise of these investments?

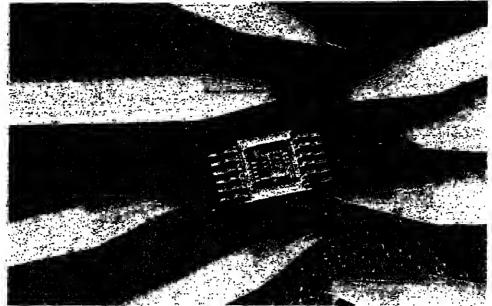
new study of 50 leading companies in the European electronics sector will provide food for thought for senior managers on the benefits of epplying information technology, and help them benchmark their own performance. The survey was carried out by CATN, the pan-European IT market research and industry analysts, and led by Cambashi, its Cambridge

It is the first of the EMIT (European Manufacturing IT Impact) series which CATN intends to continue annually to provide a developing view of best practice in the strategic epplication of what it calls ICT in engineering and manufacturing industries. The term ICT, for information and communications technology, is used to signify the convergence of computing and communications that characterises today's network-oriented computing

The primary purpose of the study is to analyse how far top management in leading electronics companies have progressed in creating ICT environments which genuinely support corporate business objectives, and how they have gone about it. No information is directly attributed to any company or person, which Cambashi believes bas improved the quality of the information obtained and the frankness of the views expressed.

When it comes to the broad issues of strategy for-mation, the study finds two contrasting ettitudes to the question of whether the cost of ICT should be viewed as an investment: the tactical attitude, which views ICT primarily as the cost of improving productivity; and the strategic ettitude, which views ICT costs as an investment in the business and a primary means of inducing business change. It is,

The NCR Scalable Data Warehouse.



benefits of applying IT. Pictured here: a low volt

like counting the cost of ment. But the strategic attilabour simply as something to be minimised or viewing people as the company's principal asset: real life lies somewhere in between.

The two attitudes to ICT are not mutually exclusive; productivity and cost reduction continue to be key doubt that the strategic atti-

minds of top management in tude implies a much more all the leading companies fundamental increase in the interviewed by Cambashi impact of ICT on the busi-Most are still in the middle ness, the issues involved of substantial business become more complex and decisions become more critistate of continual change.

Encouragingly, there is no ICT investment is clearly seen as an essential part of tude has taken over in the those changes. Differences

management styles that top management bring to bear on the business of creating and implementing an ICT organisation that has been strategy. But is this a matter only of style, the study asks, or of substance?

It is sometimes said that chief executives and boards of directors generally "don't understand ICT and do not engage sufficiently in ICT strategy formation and implementation monitoring. From our findings," says Cambashi, "we have to disagree with this view, not only because it turns out to be wrong - at least in the best practice companies but because it misses the

Given the ever-increasing impact of information and munications technology, it obviously warrants proportionate manage ttention, says the study. On the other hand, the complexity of the technology and the many, ways it impacts the believe that chief executives can address the issues simply by taking a more hands-on approach.

In this respect, the mark of best practice (whether or

interest) is the quality and staying in the market. effectiveness of the ICT planring and management created and the way the board of directors interacts

with it. The study finds that the best companies all have a sophisticated ICT planning, development and support organisation and a strong interface between it and the

nother myth which the study appears to Lexplode concerns investment justification. According to a widely quoted view, says Cambashi, there management finds it difficult to forecast financial payback, it goes in for "acts of faith."

But, say the consultants, "We don't believe that to be true in the best companies, and it is not what the study found. Like much received wisdom, it errs by over-simphification: there is a grain of truth, but the real situation is more complex.

"We did find that management has become more sophisticated in designing evaluation methods for the increasing number of cases where financial payback is

difficult to estimate." Where payback forecasts can readily be made on the basis of cost or time-savings there is no issue. These cases typically occur where obsolete local productivity

tools are being replaced. At the other extreme is the "no option" case of the kind which arises frequently in the semiconductor industry. for instance, where the cost of investing in the necessary engineering tools to support step jumps in product technology is a fundamental part of the cost of being in that business. Payback is ssessed at a high level, as

sions, says Cambashi, concern investment in the infraetructure of information
management and communication – integrated system
which improve management and communication of individuals, groups and the whole business in complex ways.

In such cases, page 2015

not assessed by acts of faith. The best companies have developed sophisticated methods of process analysis which allow them to convert assessment of company-wide process improvement into evaluation of business advantage and, finally, into the "bottom line" financial

A characteristic of the best companies is keen understanding of business objectives at all levels and a highly-developed capability for project managing the evaluation process ecross the organisation.

The quality of the justification therefore depends on the quality and thoroughness of the ICT consultative process. Again, says Camhashi. "we associate best practice with those companies which have the best network of management consultation for evaluating, testing and criticising investment

Notably, where the justification process is well-maneged, the subsequent eystems implementations tend to be more successful

The survey was partly sponsored by Cadence Desig ems and Hewlett-Packard, and carried out in association with the Financial Times, Report available from Cambashi Ltd. 52 Maioson Road, Combridge, UK CB1 2HY. Tel +44 1223 460439, fax +44 1223 461055.

Categories and companies involved in the last the survey included:

■ Automotive electronics: . Robert Bosch Siemens Automotive

Temic (Daimer Benz) Avionics and satellites Daimler Benz Aerospace Dassault Hectronique Smiths Aerospace

☐ Components, including Coutant Lambda D2D (ICL)

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Schlumberger Siebe ☐ Medical electronics: Polar Electronics Radionics

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☐ Military electronics: (Anonymous) **BAe Defence Dynamics** □ Semiconductor design

LSI Logic Mitsubishi Electric Philips Semiconductor Hitachi Europe Hitachi Microsystems

□ Sub systems and subcontractors: D2D (ICL) Force Computers Alcatel Alsthom Dencall

Ericsson Radio LM Ericsson Matarola Nokia

SIAE Microelectronics in several categories, son companies took part

Software on the Internet

Continued from page 17:

mobile devices and intranet communications modelled on the Internet. So Microsoft has to move fast to ensure that it continues to call the tune. While expressing public support for Jeve and introducing its own Jeve development language called Visual J++, it is apparently also laying plans to retain its lead position by promoting an alternative to Java, called ActiveX ActiveX builds Internet access into Java and thus appears intended to hijack Java into the Windows environment - becoming the standard way of managing objects and building Internet World Wide

Microsoft has proposed that ActiveX should become an official standard through acceptance by a standards body, departing from the company's previous strategy of imposing de facto standards through market strength.

Microsoft's Internet and tools product manager Mike Pryke-Smith says the company sees ActiveX as the ideal vehicle for Internet applications and claims that it is already the most popular object tool with developers. ActiveX and Java will complement each other, he says, and ActiveX will extend Java's capabilities. "No programming language has ever dominated the comthe Holy Grail, it is another programming

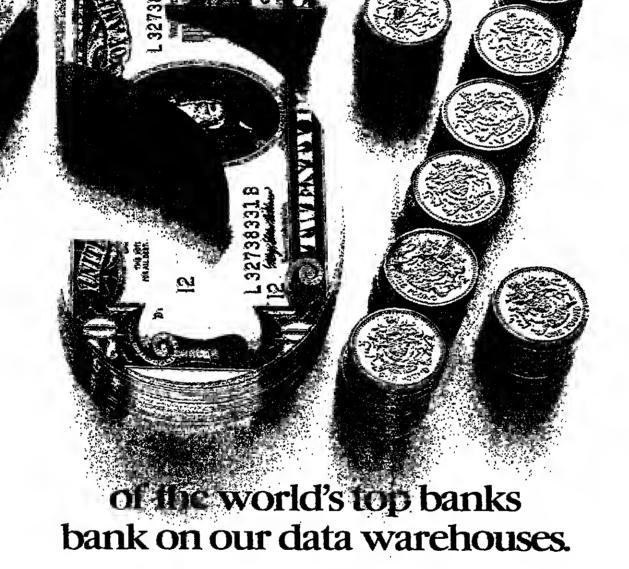
At the same time, Micr soft is challenging the Corb and HOP standards. Its alto native to these is Ole DCO Object Linking and Embe ding/Distributed Comp Object Model), which is ActiveX. Microsoft Worlike Ole/DCOM accepted another de facto standa and claims that it is alre well on the way to ac that status

Netscape's product "BBI keting manager Mr Eckar Walther agrees with M Pryke-Smith that Java need extending, but says that Corba and HOP are the way to do it. "These are the d facto standards," he says.

They will become the accepted way of allowing programs to communicate with each other across the Internet, opening up the Internet to many more bushness transactions and creat ing a boom in electronic commerce, he says

So Microsoft and Netscape agree that object technology

is the way forward for the Internet, but both claim it be able to provide the best products to change the internet's structure. Ms Liz Barnett, an analyst with Gif Information Group, noted D the summer that Corba Wa ahead of Ole/DCOM, but ActiveX was ahead of Java puter industry. Java is not and market take-up. both in technical feature



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